

FILE NOTATIONS

Entered in NID File

Entered On E & Sheet

Location Map Placed

Card Indexed

IWR for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed

GW

WW

TA

GW

OS

PA

Location Inspected

Bond released

State of Fee Land

LOGS FILED

Driller's Log

Electric Logs (No.)

E

I

E-I

GR

GRM

Misc

Lat

M-L

Sonic

Others

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

**APPLICATION
FOR PERMIT TO DRILL, DEEPEN, OR REENTER AND OPERATE**

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> REENTER <input type="checkbox"/> b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. U-43179	
2. NAME OF OPERATOR Coseka Resources (U.S.A.) Limited			6. IF INDIAN, ALLOTTEE OR TRIBE NAME 	
3. ADDRESS OF OPERATOR 			7. UNIT AGREEMENT NAME Overlook	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 2035' FWL, 1982' FSL, Sec 4 T16S R25E, S: L. B. & M., Grand At proposed prod. zone SAME NESW County, Utah			8. FARM OR LEASE NAME Federal	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 65 miles west from Grand Junction, Colorado			9. WELL NO. 6-4-16-25	
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drg. line, if any) 1982'			10. FIELD AND POOL, OR WILDCAT Wildcat	
16. NO. OF ACRES IN LEASE 1277.16			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE NE SW Sec. 4-16S-25E	
17. NO. OF ACRES AND/OR DRILLING UNIT ASSIGNED TO THIS WELL 360			12. COUNTY Grand	
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 			13. STATE Utah	
19. PROPOSED DEPTH 7569' <i>Entrada</i>			20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 8388' ungr			22. APPROX. DATE WORK WILL START July 15, 1980	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8" New	48#	200'	To surface
12 1/2"	8 5/8" New	24# & 32#	3600'	200 sx
7 7/8"	5 1/2" New	15.5# & 17#	7569'	150 sx

**APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING**
 DATE: 5-19-80
 BY: M. J. Minder

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or reenter and operate, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Donald R. Duncanson TITLE Area Drilling Eng. DATE 5/12/80

(This space for Federal or State Office use)

PERMIT NO. 43-019-30645 APPROVAL DATE 5/19/80 MAY 15 1980

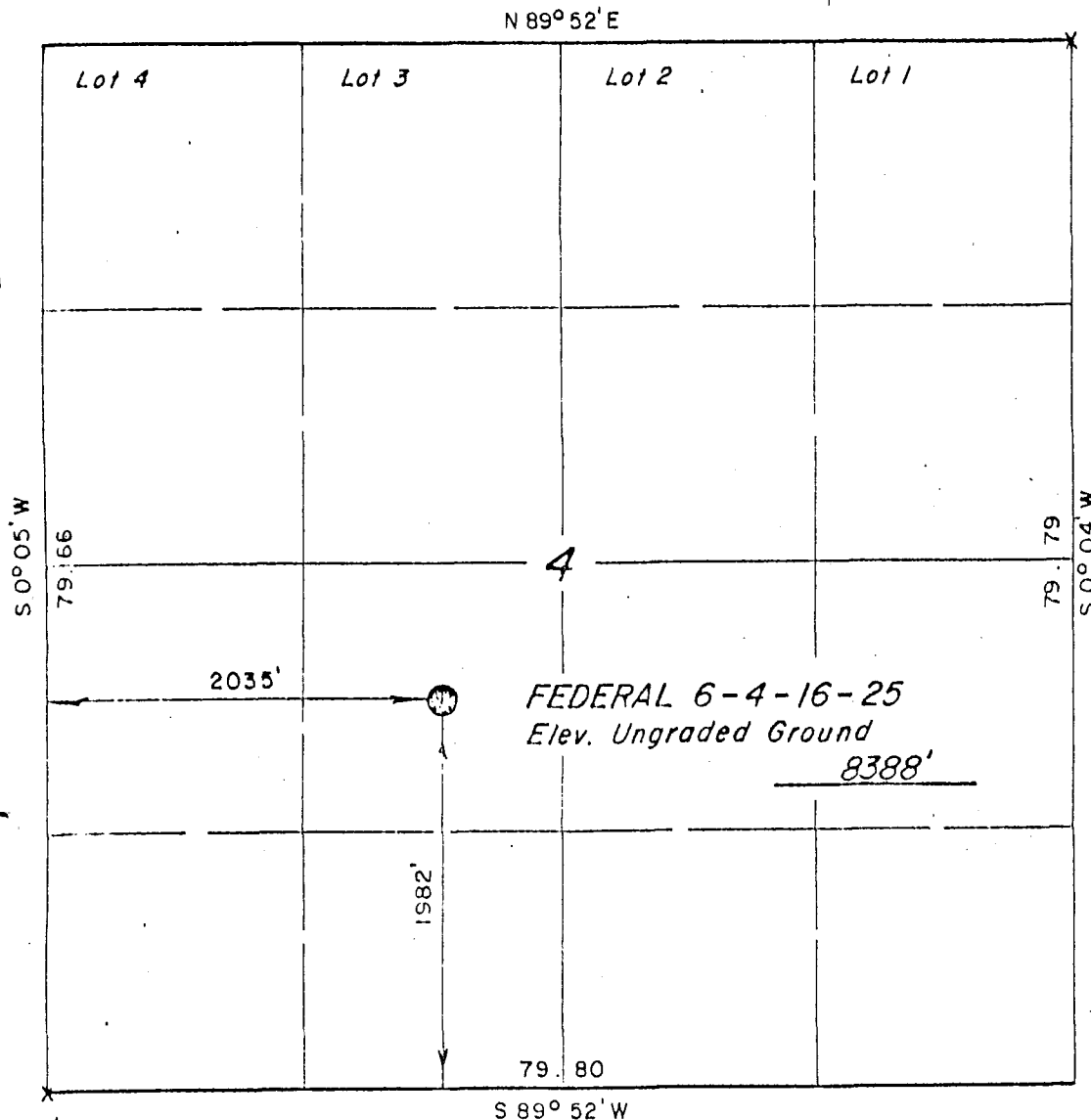
APPROVED BY _____ TITLE _____ DIVISION OF OIL, GAS & MINING

CONDITIONS OF APPROVAL, IF ANY:

T 16 S, R 25 E, S.L.B.&M.

PROJECT
COSEKA RESOURCES U.S.A. LTD.

Well location, *FED. 6-4-16-25*, located
as shown in the NE 1/4 SW 1/4 Section 4, T16S,
R 25 E, S.L.B.&M. Grand County, Utah.



X = Section Corners Located



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO 3137
STATE OF UTAH

Revised May 1, 1980

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 11/9/78
PARTY R.K. T.J. BFW	REFERENCES GLO Plat
WEATHER Clear & Cool	FILE COSEKA

OSEKA RESOURCES U.S.A. LTD.

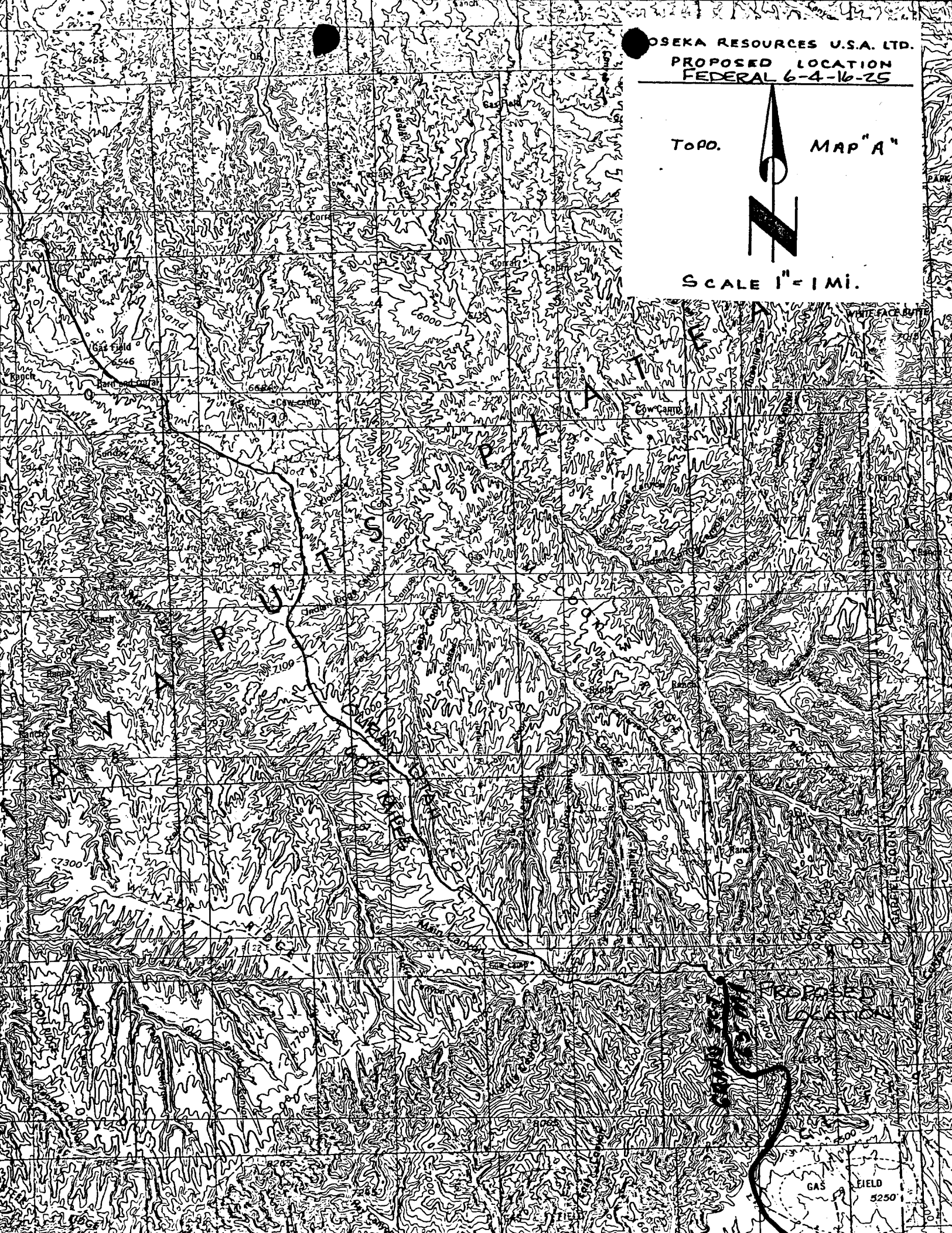
PROPOSED LOCATION
FEDERAL 6-4-16-25

TOPO.

MAP "A"



SCALE 1" = 1 MI.



PROPOSED LOCATION
FEDERAL 6-4-16-65

Topo.

MAP "B"

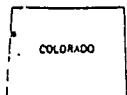


SCALE 1" = 2000'

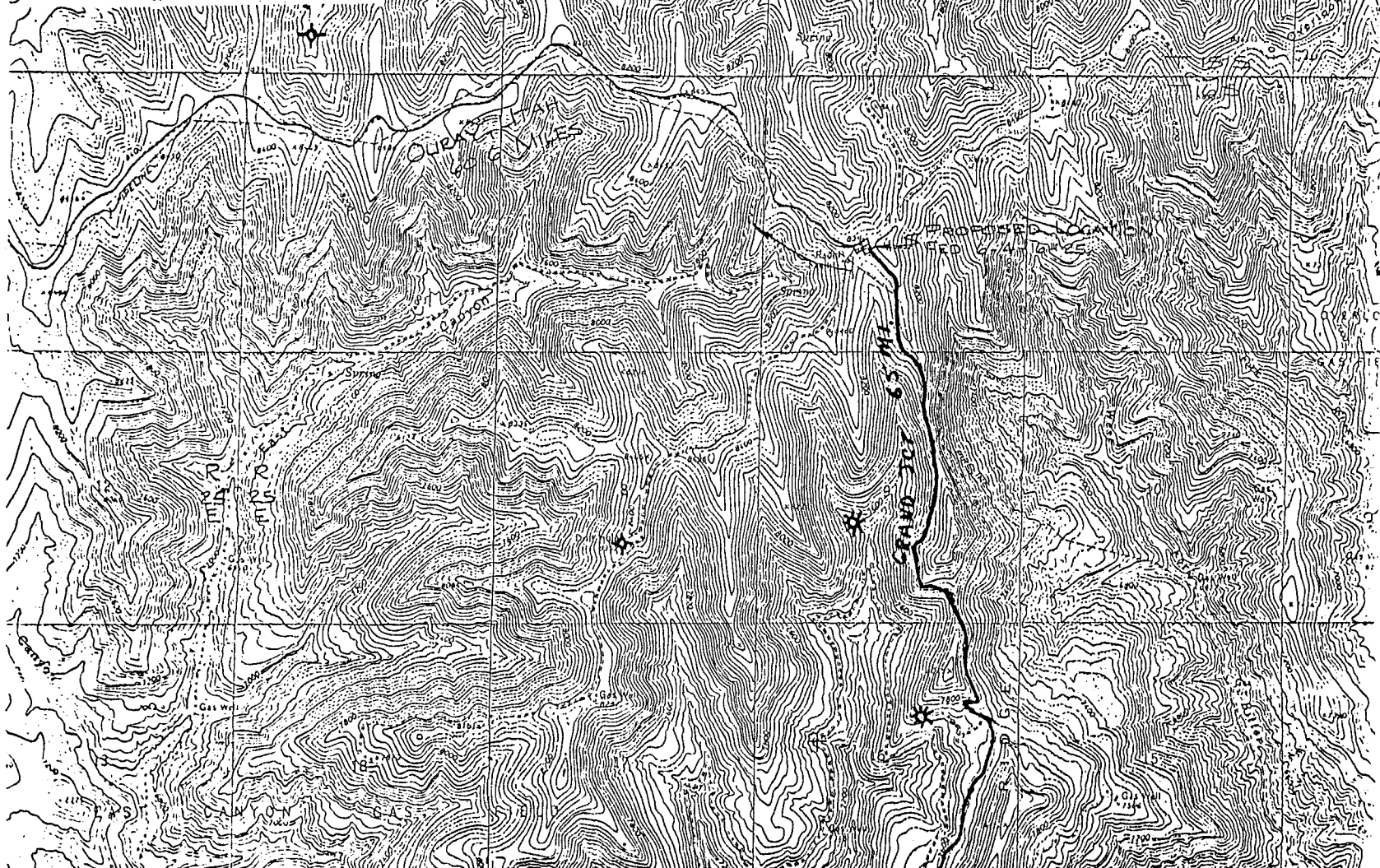
ROAD CLASSIFICATION

Light duty

Unimproved dirt

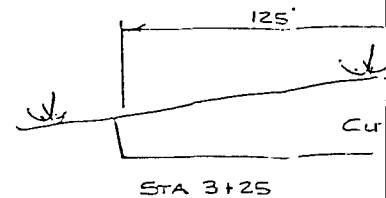
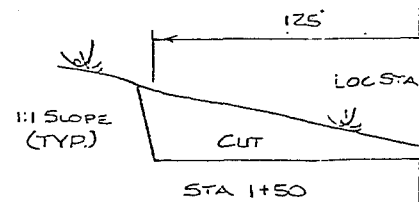
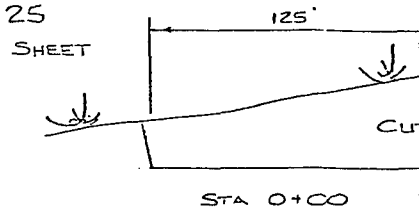
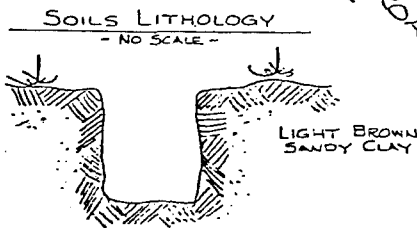
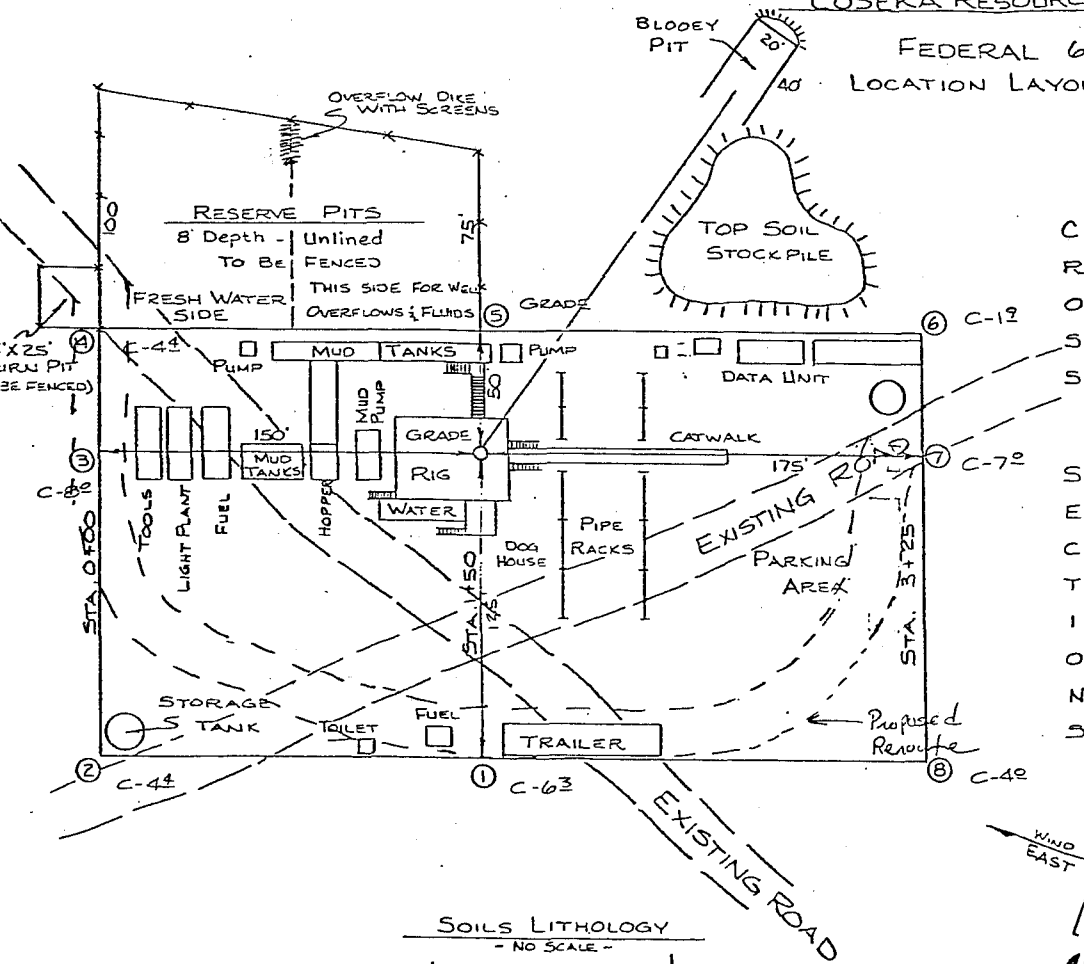


QUADRANGLE LOCATION



COSEKA RESOURCES U.S.A. LTD.

FEDERAL 6-4-16-25 LOCATION LAYOUT & CUT SHEET



APPROX. YARD
CUT 3.534
FILL 0

CONTINUATION

DATE: FEDERAL 6-4-16-25
E NE SW SEC #4 T16-S R25-E
PRODUCER: COSEKA

THERING: GRAND VALLEY

E TO: PROPOSED (P/S) LOT A-7.

ELD TRIP: w/ JIM BEZEL
4-30-50.

MARKS: ROAD & PIPELINE ARE
COMPATIBLE.

RE: MAP MADE ONLY 4-30-50.)

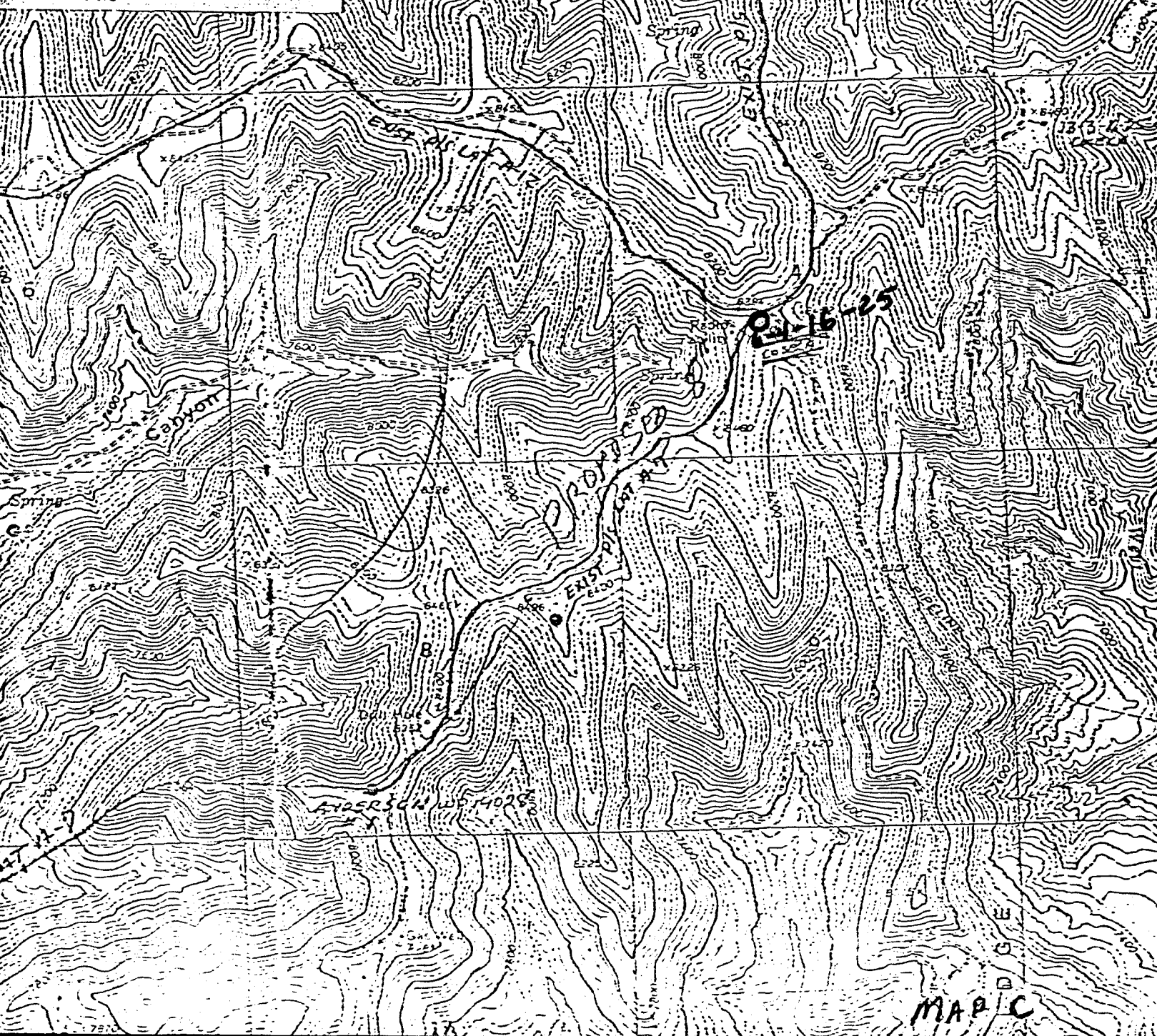
E P/S RUN 4-30-50

MADE LOC ONLY

QUAD: SAN ARROYO
RIDGE UTAH.

NEW FILE

FLI 5-1-80



MAP C

Glenn

FROM: DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U 43179OPERATOR: COSEKA RESOURCES (USA) LTD WELL NO. 6-4-16-25LOCATION: NE $\frac{1}{2}$ NE $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 4, T. 16S, R. 25E, SLMGRAND County, UTAH

1. Stratigraphy:	GREEN RIVER Fm	0	MANCOS "B"	3927'
	WASATCH Fm	450'	MANCOS "B" BASE	4695'
	MESAVEROE Gp	1462'	DAKOTA SS	6843'
	NESLEN MEMBER,	2362'	BUCHORN CONG	6945'
	PRICE RIVER Fm		MORRISON Fm	7023'
	MANCOS SH	2927'	ENTRADA SS	7619'
	CASTLEGATE SS	3177'	TD	7569'

2. Fresh Water:

MAY BE ENCOUNTERED FROM THE WASATCH Fm THROUGH THE UPPER MESAVEROE Gp (450'-2000').

3. Leasable Minerals:

GAS MAY BE ENCOUNTERED IN THE CASTLEGATE SS (3177'), DAKOTA SS (6843'), BUCHORN CONG (6945') OR THE MORRISON Fm (7023')

ECONOMIC COAL MAY BE FOUND IN THE NESLEN MEMBER PRICE RIVER Fm (2362')

4. Additional Logs Needed:

NATURAL GAMMA AND GAMMA DENSITY LOGS FOR PROTECTION AND IDENTIFICATION OF COAL BEDS, THROUGH CASING

5. Potential Geologic Hazards:

NONE ANTICIPATED

6. References and Remarks:

DOELLING; COAL MONOGRAPH #2.

GUALTERI, USGS, BCR
COAL DRILLING

PI FILES

Signature: Kenneth J. Bick Date: 02 JUN - 1980 05 JUN REC'D

**** FILE NOTATIONS ****

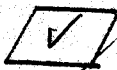
DATE: May 15, 1980

OPERATOR: Coska Resources, Ltd

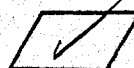
WELL NO: Federal # 6-4-16-25

Location: Sec. 4 T. 16S R. 25E County: Grand

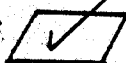
File Prepared:



Entered on N.I.D:



Card Indexed:



Completion Sheet:



API Number 43-019-30145

CHECKED BY:

Petroleum Engineer:

M. J. Minder 5-19-80

Director:

Administrative Aide:

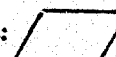
no wells within 2000'

APPROVAL LETTER:

Bond Required:



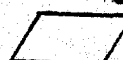
Survey Plat Required:



Order No.

149-1 3/14/73

O.K. Rule C-3

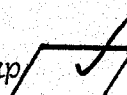


Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

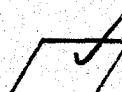
Lease Designation



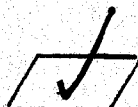
Plotted on Map



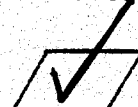
Approval Letter Written



Hot Line



P.I.



Wm

#3

May 23, 1980

Coseka Resources, Ltd.
718 17th Street, Suite 630
Denver, Colorado 80202

Well No. Federal #6-4-16-25
Sec. 4, T. 16S, R. 25E.,
Grand County, Utah

Insofar as this office is concerned approval to drill the above referred to gas well ~~is~~ hereby granted in accordance with the Order issued in Cause No. 149-1 dated March 14, 1973.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immeidately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountereddduring drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hoursafter drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30645.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Petroleum Engineer

/bzm

cc: USGS



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
VERNAL DISTRICT OFFICE
170 South 500 East
Vernal, Utah 84078

IN REPLY REFER TO

T & R
(U-802)

July 8, 1980

Ed Guynn, District Engineer
USGS, Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

Re: Coseka Resources Limited
Well #13-3-16-25 Sec. 3,
T16S, R25E
Well #6-4-16-25 Sec. 4,
T16S, R25E, U-43179
Grand County, Utah

Dear Sir:

A joint field examination was made on July 2, 1980 of the above referenced well site locations, proposed access roads, and gathering line routes. We feel the surface use and operating plans are adequate with the following comments:

1. Construction and maintenance of roads, construction of pipeline routes, and rehabilitation of disturbed areas, shall be in accordance with surface use standards as set forth in the booklet "Surface Operating Standards for Oil and Gas Exploration and Development".
2. A burn pit shall not be constructed. There will be no burying of garbage and trash at the well sites. Trash and garbage must be contained and hauled to an approved disposal site.
3. It was agreed upon by all parties present that the applied for pad sizes are of adequate size to handle all drilling and fracturing operations.
4. The BLM will be contacted at least 24 hours prior to any rehabilitation so that the operator may be appraised of seeding and restoration requirements.



5. The BLM will be contacted at least 24 hours prior to any surface disturbance.

Site specific - Well #6-4-16-25.

1. The top 4-6 inches of top soil will be removed from the pad and stockpiled between referenced stakes numbers 2 and 3.
2. The existing roads will be rerouted along the North, East and West sides of the pad during drilling and fracturing operations. Appropriate traffic signs will be installed to warn approaching traffic of the route change and that men and machinery are working near the road.
3. The reserve pit dimensions were changed to 35 feet wide by 250 feet long. The operator may increase the depth of the pit beyond 8 feet if an increased storage capacity is needed.
4. The reserve pit will be fenced according to the operators submitted 13 point plan, point #4, part B, - statement #4.
5. The Blooey Pit was rotated about 15° to the West. The back wall of the Blooey Pit will be supported with large rocks to reduce erosion of the dirt wall.

Well #13-3-16-25.

1. The site was moved 50 feet to the NW of the staked location. The moving of the pad allows the operator to use an existing road for access.
2. The reserve pit dimensions were changed to 35 feet wide by 250 feet long. The depth of the pit can be greater if the operator needs a larger capacity.
3. The reserve pit will be fenced as addressed in the operators 13 point plan.
4. The Blooey Pit was rotated approximately 15° to the South. The back of the dirt wall will be reinforced by large rocks.
5. The top 6-8 inches of soil from the proposed location will be removed and stockpiled between referenced stakes numbers 7 and 8.

An archaeological clearance has been conducted by Nickens and Associates of Montrose, Colorado, on the proposed drill sites. No cultural material was located on the surface of the surveyed areas.

The proposed activities do not jeopardize listed, threatened or endangered flora/fauna and their habitats.

Both locations are located in a Winter shut down location. *Exploration, drilling and other development activity will be allowed only during the period from April 30 to November 1. This limitation does not apply to maintenance and operation of producing wells. Exceptions to their limitation in any year may be specifically authorized in writing by the District Engineer, Geological Survey, with concurrence of the District Manager, Bureau of Land Management.

When water is being hauled out of South Canyon to either location for any activity by the operator or by companies hired by the operator, the South Canyon road will be sufficiently watered to eliminate dust generated by vehicular traffic.

The BLM representative will be Ron Rogers (801-789-1362).

Sincerely,

Dean L. Evans (acting)

Dean L. Evans
Bookcliff Resource Area Manager

cc: USGS, Grand Junction

13 POINT SURFACE USE PROGRAM

COSEKA RESOURCES PROPOSES TO HAVE THE PIPELINE INSPECTED AT THE SAME ONSITE AS THE WELL PAD, COSEKA HAS COORDINATED THIS WITH NORTHWEST PIPELINE CORP. AND IT IS INTENDED TO SAVE TIME FOR EVERYONE INVOLVED. THE PIPE LINE IS SHOWN ON MAP "A" AND WILL CROSS THE WELL PAD.

1. Existing Roads

- A. For the location of the proposed well and the existing roads, see the attached Topographic Maps "A" and "B". The proposed well is located in the NE NE SW Section 4, Township 16 South, Range 25 East, S.L.B. & M., Grand County, Utah. See well plat.
- B. The proposed location is approximately 65 miles west of Grand Junction, CO. To reach Coseka Resources Well location #6-4-16-25, proceed west from Grand Junction on old U.S. Highway 6-50 and continue for approximately 42 miles (2 miles East of the Colorado line). Turn right at the Geokenetics sign and continue in a northwesterly direction on light duty road for approximately 17 miles. Continue northwesterly on unimproved dirt and jeep trail up San Arroyo Ridge approximately 9 miles to well site, located on main road.
- C. The proposed route is outlined on Topographic Map "B".
- D. See Topographic Map "B"
- E. Not applicable.
- F. There are no plans for the improvement or maintenance of the existing roads other than the normal maintenance of the road as provided by the Utah Highway Department.

2. Planned Access Roads

There is no new access road necessary.

3. Location of Existing Wells

See Topographic Map "B". For information purposes, the following wells are within a two mile radius of the proposed well.

- (1) Water wells - None
- (2) Abandoned wells - SW Sec 8-16S-25E
SW SW Sec 31-15S-25E
- (3) Temporarily abandoned wells - None
- (4) Disposal wells - None
- (5) Drilling wells - None

(6) Producing wells - NE SW Sec 9-16S-25E
SW NE Sec 16-16S-25E (2 wells)

(7) Shut-in wells - None

(8) Injection wells - None

(9) Monitoring wells - None

4. Location of Existing and Proposed Facilities

A. There are no existing production facilities located within one mile of the proposed well. See Topographic Map "B".

(1) Tank batteries - None

(2) Production facilities - None

(3) Oil gathering lines - None

(4) Gas gathering lines - See topographic Map "C".

(5) There are no injection lines in the area.

(6) There are no disposal lines in the area.

All gas lines shown in the area are buried and are operated by Northwest Pipeline Corporation or Western Slope Gas.

B. Due to the exploratory nature of the Coseka Resources drilling program, we are unable to anticipate any production. However, should commercial production be encountered, an equipment layout of the facilities is enclosed.

(1) All production facilities will be kept on the pad.

(2) A proposed Production Layout for this location is attached as Exhibit B. TEMPORARY surface production delivery pipe will be laid to the gathering system.

(3) Construction materials will be native borrow or cut exposed on the site, and will be consistent with accepted oil field standards and good engineering practices.

(4) A three strand barbed wire fence will be constructed and maintained around any disposal pits during the drilling and completion phase of the well. Three sides prior to completion and fourth side after completion. When these pits are no longer needed or within 90 days, they will be covered over with native borrow material and rehabilitated to conform with the provisions of the rehabilitation agreement on BLM standards. A welded pipe fence will be constructed around the wellhead to prevent access to livestock or larger wildlife.

C. Rehabilitation of the pits is discussed above. The remaining pad not used for producing operations will be recontoured to conform with the natural grade and covered with topsoil saved on the site. This area will be reseeded as per current BLM guidelines.

5. Location and Type of Water Supply

A. Water to be used to drill this well will be obtained from South Canyon to the northeast. An agreement will be obtained and available at the onsite inspection.

B. Water will be hauled by trucks on the above described access route. See route on Topographic Map "A". No new roads or pipelines will be needed for this purpose.

C. No water well will be drilled.

6. Source of Construction Materials

A. All construction materials for this location site and access road shall be native borrow rock and soil accumulated during the construction. No additional road gravel or pit lining materials are anticipated at this time, but if they are required, appropriate action will be taken to acquire them from private sources after notification is given to the proper regulatory agencies.

B. Items described in part "A" are from Federal lands.

C. See part "A".

D. No other access roads are required other than described in Item 2.

7. Methods for Handline Waste Disposal

See location Layout for the size and location of the reserve and burn pits.

- (1) Drill cuttings, drilling fluids, salts, chemicals and produced fluids will be disposed of in the reserve pit on the location pad. This pit will be approximately 8 feet deep and at least one-half of this depth shall be below the existing ground level. Dust produced during the air drilling phase shall be suppressed by inserting a water hose with a spray nozzle into the 7" flow line.
- (2) See Item 1 above for disposal of drilling fluids.
- (3) See Item 1 above for disposal of produced water. Any oil produced after the well is connected to a pipeline will be collected in a tank on location and trucked for sale to the buyer to be determined at that time. No oil production is anticipated from this well.
- (4) A portable chemical toilet will be provided for human waste during the drilling phase.
- (5) Garbage and other waste material will be collected in trash cages and hauled from the site as required.
- (6) Immediately after the drilling rig moves off the location, the remaining trash and flammable material will be collected in trash cages and hauled from the site. The reserve pit will be fenced on the open side to protect domestic animals and wildlife. This pit will be utilized during the completion and testing phase of the well for storage of produced fluids. As soon as the testing is completed, the pit will be allowed to dry and covered. The drilling pad will then be reclaimed as detailed in Item 10 discussed below.

8. Ancillary Facilities

No airstrips or camps are planned for this well.

9. Well Site Layout

See attached Location Layout Sheet which show the following items:

- (1) Cross section of the pad showing details of the cuts and fills.
- (2) Location of the reserve, burn and trash pit, pipe racks, living facilities and topsoil stockpile.
- (3) Rig orientation, parking areas and access road.
- (4) All pits will be unlined unless it is determined by the representatives of the agencies involved that the pad materials are too porous and would not prevent contamination to the surrounding area; then the pits will be lined with a bentonite gel and any other type material necessary to make it safe and tight.

10. Plans for Restoration of Surface

In the event of a dry hole, pits will be allowed to dry and will then be backfilled and waste pits will be backfilled. The location will be restored to as near the original contour as feasible and then reseeded.

- (1) Upon completion of the testing phase of the well and prior to the pipeline hookup, the areas not needed for access to the well and used for producing operations shall be filled and recontoured to blend with the surrounding topography and the stockpiled soil redistributed over the unused disturbed area. After final plugging and abandonment of the well, the entire disturbed area will be contoured and topsoil spread over any previously disturbed area.
- (2) The revegetation of the drill site area and access not needed to carry on production operations will be reseeded with a seed mixture recommended by the BLM District Manager. It will be performed at a time of the year when the moisture content of the soil is adequate for germination. The Lessee agrees that all of the clean-up and restoration activities shall be done in a diligent and timely manner and in conformity with the above mentioned Items 7 and 10 (1).

- (3) All pits will be fenced prior to disposal of any waste material and the open side of the reserve pit will be fenced before removing the rig from the location. The fence will be maintained in good condition until Item (1) is started.
- (4) Any oil or condensate on any temporary pit will be removed in a timely manner. Overhead flagging or netting will be installed on any sump pit used to handle well fluids during the producing life of the well.
- (5) Restoration activities shall begin within 90 days after the completion of the well. Once completion activities have begun, they shall be completed within 30 days. All wellhead and surface equipment will be painted to blend with the environment according to BLM recommendations.

11. Other Information

The topography of the general area is mountainous and cut with numerous canyons. The Green River shale is a weather resistant cap which has produced the flat-top nature of the area. The soils in this semi-arid area are of the Green River formation (Middle Eocene) and the Wasatch formation (Lower Eocene) consisting of light brownish-gray clays (OL) to sandy soils (SM-ML) with poorly graded gravels. Outcrops of sandstone ledges, conglomerate deposits and shale are common on this area. The topsoils in the area range from sandy clay (SM-ML) to clayey (OL) soil.

Vegetation in the area consists of scrub oak, aspen and mature spruce trees with grasses and low ground cover in the clearings. On the lower elevations it consists of juniper and pinon pine forests as the primary flora with areas of sagebrush, rabbit brush, some grasses and cacti. Some removal of vegetation will be required on the access route and in the pad area, but will be kept to a minimum and conform to BLM regulations.

Fauna of the area consist of a migrating mule deer population, coyotes, bear, rodents, birds, and fauna connected with a high altitude environment. Access to the well is across federal leases. Surface ownership lies with the Federal Government.

The majority of the washes and streams in the area are of a non-perennial nature flowing during the early spring runoff and extremely heavy rains of long duration, which are extremely rare. The normal annual rainfall in the area is only 8". Live water streams within 7 miles of the well site are PR Spring to the north and South Canyon to the northeast.

There are no occupied dwellings or other facilities of this nature in the general area. There are no visible archaeological, historical or cultural sites within any reasonable proximity of the proposed location site.

12. Lessee's or Operator's Representative

Donald R. Dunckley, Drilling Eng.
Coseka Resources (U.S.A.) Ltd.
2512 E $\frac{1}{4}$ Road
Grand Junction, Colorado 81501

(303) 245-6220 (Office)
(303) 243-3846 (Home)

Johnnie D. Odum, Operations Mgr.
Coseka Resources (U.S.A.) Ltd.
718 17th Street, Suite 630
Denver, Colorado 80202

(303) 573-6178

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access routes; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Coseka Resources (U.S.A.) Limited and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

5/9/80

Date

Donald R. Dunckley

Donald R. Dunckley, Drilling Eng.

10 POINT PROGRAM

6-4-16-25

1. The geological name for the surface formation is the Green River Formation of Middle Eocene Age.
2. The estimated tops of important geological markers with depths calculated from an estimated RKB elevation of 8400' are as follows:

Mancos	2927'
Castlegate SS	3177'
Mancos "B"	3927'
Base Mancos "B"	4695'
Dakota	6843'
Morrison	7023'
Entrada	7619'
Total Depth	7569'

3. Of the formations listed above it is anticipated that the Morrison and Dakota formations may be gas bearing in the well.
4. The proposed casing program for completion of this well will consist of 5½" 15.5# and 17# K-55 new casing; intermediate casing will consist of 8 5/8" 32# new casing and will be run to 3600'; 200' of 13 3/8" 48# H-40 surface casing will be run and will be new.
5. The operator's minimum specifications for pressure control equipment are as follows:

A 12" Series 900 Hydril Bag type BOP and a 12" Series 900 Ram Hydraulic unit with a closing unit will be utilized. Additionally, while air drilling, a Series 900 Rotating Head will be used. Pressure tests of BOP's to 1000# will be made after installation and operation and will be checked daily. (See Exhibit A)
6. It is proposed that the hole will be drilled to 3600' with Salt mud. From 3600' to Total Depth it is planned to drill the well with air. The rig will have the pits filled with water and mud with enough weight to control any pressures encountered.
7. Auxiliary equipment to be used will be a Kelly Cock and a Float at the drill bit.

8. No coring or drill stem testing has been scheduled for this well. The logging will consist of a dual induction laterolog and a compensated neutron formation density log.
9. It is not anticipated that abnormal pressures or temperatures will be encountered nor that any other abnormal hazards such as H_2S gas will be encountered in this area.
10. It is anticipated that this well will be commenced approximately July 15, 1980, and that the operations will last three weeks.

Normal formation pressures and temperatures are expected and BOP equipment will be 900 series 3000 psi WP.

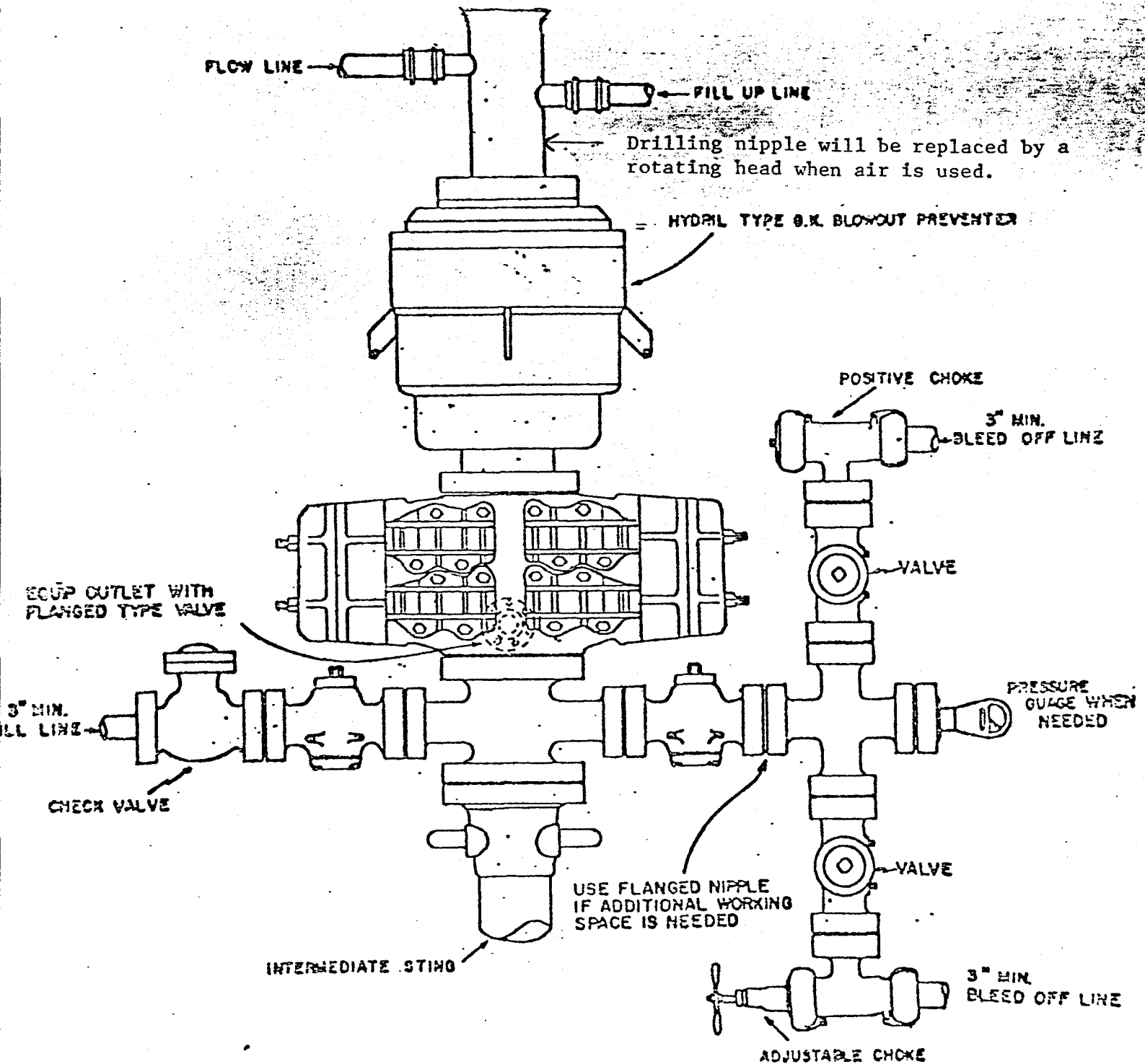


EXHIBIT A



COSEKA RESOURCES (U.S.A.) LIMITED

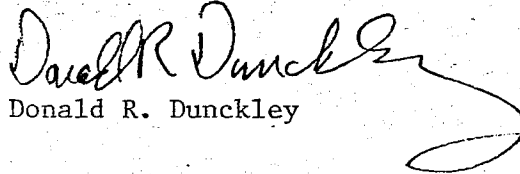
2512 E 1/4 ROAD, P. O. BOX 399, GRAND JUNCTION, COLORADO 81501 (303) 245-6220

July 15, 1980

United States Geological Survey
131 North 6th, Suite 300
Grand Junction, Co 81501

Re: Federal 6-4-16-25
NE SW Sec 4-16S-25E
Lease #U-43179

Attached please find a copy of our application to the Grand Co. road department for a right of way encroachment permit. We have talked to them about our plans and they concur but require this paper work to make it official. Will forward the approved permit when received.


Donald R. Dunckley

16 JUL REC'D

GRAND COUNTY ROAD DEPARTMENT

Application for Right-of-Way Encroachment Permit

Date 7/15 19 80

To: Road Supervisor
Grand County Road Department

Application is hereby made by: (1) Coseka Resources Inc.

Address (2) 2512 E 1/2 Rd. Box 399

Telephone number 245-6220 for permission to do the following: (3)
Temporarily reroute your county road around our location while we drill
and complete a well. The road will be maintained while we drill and restored
to it's original location and condition when we finish.

(4) Location: NE SW Sec 4-16S-25E
See attached map and plan for rerouting road.

City NONE County Grand State or U.S. Highway No.
 Milepost No. in accordance with the attached plan. (5)

(6) Construction will begin on or about 8/1 19 80
and will be completed on or before 10/1 19 80

If the proposed installation requires breaking of the pavement, give the following information:

- a. Type of pavement: NONE
- b. The opening to be made will be feet long by
feet wide and feet deep.
- c. A bond in the amount of \$ has been posted with

Telephone number , to run for a term of
three (3) years after completion of work to guarantee satisfactory performance.

If this permit is granted, we agree to comply with all conditions, restrictions and regulations as contained in the "Regulations for the Control and Protection of State Highway Rights-of-Way" approved by the Utah State Road Commission on October 8, 1962, and all revisions thereto.

Coseka Resources Inc.
Owner

By Donald R. Dunckley Signature

Area Drilling Engineer
Title

To be filled in by Road Supervisor
(1) Permit ☐ should ☐ should not be granted.
(2) Additional requirements which should be imposed.

Road Supervisor

INSTRUCTIONS

- (1) *Application for this permit should be made in duplicate by whoever will actually do the work whether it be the owner or a contractor.
- (2) Mailing address of applicant.
- (3) State fully and completely the type of installation, type of construction, width, thickness, drainage data, etc., where applicable. If pole line, give the following information: number of poles, total length of line, type of wire, character of service, vertical clearance over roadway, and voltage if power line.
- (3) If pipe line or buried cable, give the following information: type of service, size and length of line, depth of trench, kind of pipe (sewer, gas, oil, water supply, etc.) or conduit, and if pipe is to be driven or if pavement is to be broken. All fluid lines require encasement with suitable material. The size and length of encasement shall be satisfactory to the State Department of Transportation.
- (4) Give distance from some geographical point such as intersecting highways, city, or corporate limits. Give city, county, and state or U.S. route number.
- (5) Attach four (4) copies of a plan showing proposed location of structures with reference to pavement and right-of-way lines. If installation crosses the highway, show cross section of present roadway and proposed installation.
- (6) Give anticipated dates for beginning and for completion of proposed installation.

Note: A fee of five dollars will be charged for all Right-of-Way Encroachment Permits, except those obtained for pole lines, pipe lines, and buried cable lines. This Permit fee, where applicable, should be submitted with the application. The costs of inspection are included in the Right-of-Way Encroachment Permit fee, except for pole lines, pipe lines, and buried cable lines which shall be billed for the inspection as described under "Inspection" on Page 16 of the "Regulations for the Control and Protection of State Highway Rights-of-Way."

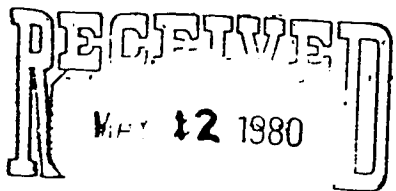
STATE OF UTAH)
COUNTY OF WEBER) ss.

On this 16 day of June, A.D. 19 80, before me personally appeared Donald C. Hatch and Gary Sprouse, to me known to be the indential persons, described in and who executed the within and foregoing instrument of writing and acknowledged to me that they duly executed the same as free and voluntary act and deed for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal the day and year above written.

May 5, 1984
My Commission Expires

Marilyn N. Harris
Notary Public



COSEKA RESOURCES
GRAND JUNCTION, COLO.

AFFIDAVIT OF WATER RIGHTS' POSSESSION

By Fee Owner

STATE OF Utah)
COUNTY OF Uintah) ss.

Donald C. Hatch, being first duly sworn,
deposes and says:

That I am of lawful age and reside in Uintah County,
State of Utah

That I am the owner of water rights situated in the County of
Uintah State of Utah

covering lands described as follows, to-wit:

Township 15 South, Range 24 East
Section 32: All

(Water to be taken from a spring in said Section 32).

That I have been in open, adverse, exclusive, continuous and undis-
puted possession of said rights for more than 20 years last past.

That I am using and maintaining said water rights.

That I have entered into a contractual agreement with Coseka Resources
granting said corporation the right to use and transport an amount of water
sufficient to drill and complete ~~an~~ ^{all anticipated} oil and gas wells ~~located~~ ^{located} ~~to be~~
to be drilled by Coseka or its Assigns, and located in

Townships 13, 14, 15 and 16 South, Ranges 21, 22, 23, 24 and 25 East.

Ad H Ranches
By Donald C. Hatch

STATE OF Colorado)
COUNTY OF Mesa) ss.

ACKNOWLEDGMENT FOR INDIVIDUAL

Before me, the undersigned, a Notary Public, within and for said County and State on this 3rd
day of May, 19 80, personally appeared Donald C. Hatch
and _____, to me personally known to be the identical
person who executed the within and foregoing instrument and acknowledged to me that he executed
the same as a free and voluntary act and deed for the uses and purposes therein set forth, and at the same
time the affiant was by me duly sworn to the foregoing Affidavit of Possession.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above
written.

RELEASE OF SURFACE DAMAGES

STATE OF UTAH)
COUNTY OF WEBER) ss.

KNOW ALL MEN BY THESE PRESENTS:

THAT, the undersigned do(es) hereby acknowledge the payment of the sum of one thousand five hundred and no/100's (\$1500.00) Dollars, as payment in full for settlement and satisfaction of all detriment, injuries and damage of whatsoever nature and character growing out of, incident to or in connection with the drilling of the Federal #6-4-16-25 well, in Grand County, of the State of Utah, located: Township 16 South, Range 25 East
Section 4; NE 4 NE 4 SW 4

AND, the undersigned do(es) hereby release, acquit and discharge Coseka Resources (U.S.A.) Limited, and its assigns from any and all claims for detriment, injuries and damage of whatsoever nature or character which the undersigned has or will sustain to the above described surface by reasons of the drilling and operations of said well on the above subject land.

AND, in consideration of the said payment, the undersigned do(es) hereby covet and agree with the said Coseka Resources (U.S.A.) Limited to hold it harmless against any and all demands of all parties whomsoever (whether as the undersigned's landlords, tenants, employees or otherwise) who may have or claim any interest in the said lands or in the improvements thereon.

WITNESS my/our hand(s) this 5th day of June, 19 80

Harold C. Thatch
James H. Thatch

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Area Oil and Gas Supervisor or
District Engineer (Address, include zip code)

SURFACE DISTURBANCE STIPULATIONS

Management Agency (name)

Address (include zip code)

See reverse side.

See reverse side.

1. Notwithstanding any provision of this lease to the contrary, any drilling, construction, or other operation on the leased lands that will disturb the surface thereof or otherwise affect the environment, hereinafter called "surface disturbing operation," conducted by lessee shall be subject, as set forth in this stipulation, to prior approval of such operation by the Area Oil and Gas Supervisor in consultation with appropriate surface management agency and to such reasonable conditions, not inconsistent with the purposes for which this lease is issued, as the Supervisor may require to protect the surface of the leased lands and the environment.

2. Prior to entry upon the land or the disturbance of the surface thereof for drilling or other purposes, lessee shall submit for approval two (2) copies of a map and explanation of the nature of the anticipated activity and surface disturbance to the District Engineer or Area Oil and Gas Supervisor, as appropriate, and will also furnish the appropriate surface management agency named above, with a copy of such map and explanation.

An environmental analysis will be made by the Geological Survey in consultation with the appropriate surface management agency for the purpose of assuring proper protection of the surface, the natural resources, the environment, existing improvements, and for assuring timely reclamation of disturbed lands.

3. Upon completion of said environmental analysis, the District Engineer or Area Oil and Gas Supervisor, as appropriate, shall notify lessee of the conditions, if any, to which the proposed surface disturbing operations will be subject.

Said conditions may relate to any of the following:

- (a) Location of drilling or other exploratory or developmental operations or the manner in which they are to be conducted;
- (b) Types of vehicles that may be used and areas in which they may be used; and
- (c) Manner or location in which improvements such as roads, buildings, pipelines, or other improvements are to be constructed.

For all counties in Utah except San Juan County:

Area Oil and Gas Supervisor
Geological Survey,
P. O. Box 2859
Casper, Wyoming 82601

For San Juan County:

Area Oil and Gas Supervisor
Geological Survey,
P. O. Box 26124
Albuquerque, New Mexico 87125

Form 3109-5 (August 1973)

STIPULATIONS

In order to minimize watershed damage, exploration, drilling, and other development activity will be allowed only during the period from April 30 to November 1. This limitation does not apply to maintenance and operation of producing wells. Exceptions to this limitation in any year may be specifically authorized in writing by the District Engineer, Geological Survey, with the concurrence of the District Manager, Bureau of Land Management.

No occupancy or other surface disturbance will be allowed within 600 feet of live water. This distance may be modified when specifically approved in writing by the District Engineer, Geological Survey, with the concurrence of the District Manager, Bureau of Land Management.

UNITED STATES DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT
UTAH STATE OFFICE

WILDERNESS PROTECTION STIPULATION

By accepting this lease, the lessee acknowledges that the lands contained in this lease are being inventoried or evaluated for their wilderness potential by the Bureau of Land Management under section 603 of the Federal Land Policy and Management Act of 1976, 90 Stat. 2743, 2785 (43 U.S.C. Sec. 1782).

Until the BLM determines that the lands covered by this lease do not meet the criteria for a wilderness study area as set forth in section 603, or until Congress decides against the designation of lands included within this lease as "wilderness," the following conditions apply to this lease, and override every other provision of this lease which could be considered as inconsistent with them and which deal with operations and rights of the lessee:

1. Any oil or gas activity conducted on the leasehold for which a surface use plan is not required under NTL-6 (for example; geophysical and seismic operations) may be conducted only after the lessee first secures the consent of the BLM. Such consent shall be given if BLM determines that the impact caused by the activity will not impair the area's wilderness characteristics.
2. Any oil and gas exploratory or development activity conducted on the leasehold which is included within a surface use plan under NTL-6 is subject to regulation (which may include no occupancy of the surface) or, if necessary, disapproval until the final determination is made by Congress to either designate the area as wilderness or remove the section 603 restrictions.

If all or any part of the area included within the leasehold estate is formally designated by Congress as wilderness, oil and gas exploration and development operations taking place or to take place on that part of the lease shall become subject to the provisions of the Wilderness Act of 1964 which apply to national forest wilderness areas, 16 U.S.C. Sec. 1131 et seq., as amended, the Act of Congress designating the land as wilderness, and Interior Department regulations and policies pertaining thereto.

PROPOSED LOCAT' ON
FEDERAL 6-4-16-65

Topo.

MAP "B"



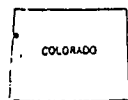
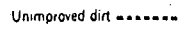
SCALE 1" = 2000'

ROAD CLASSIFICATION

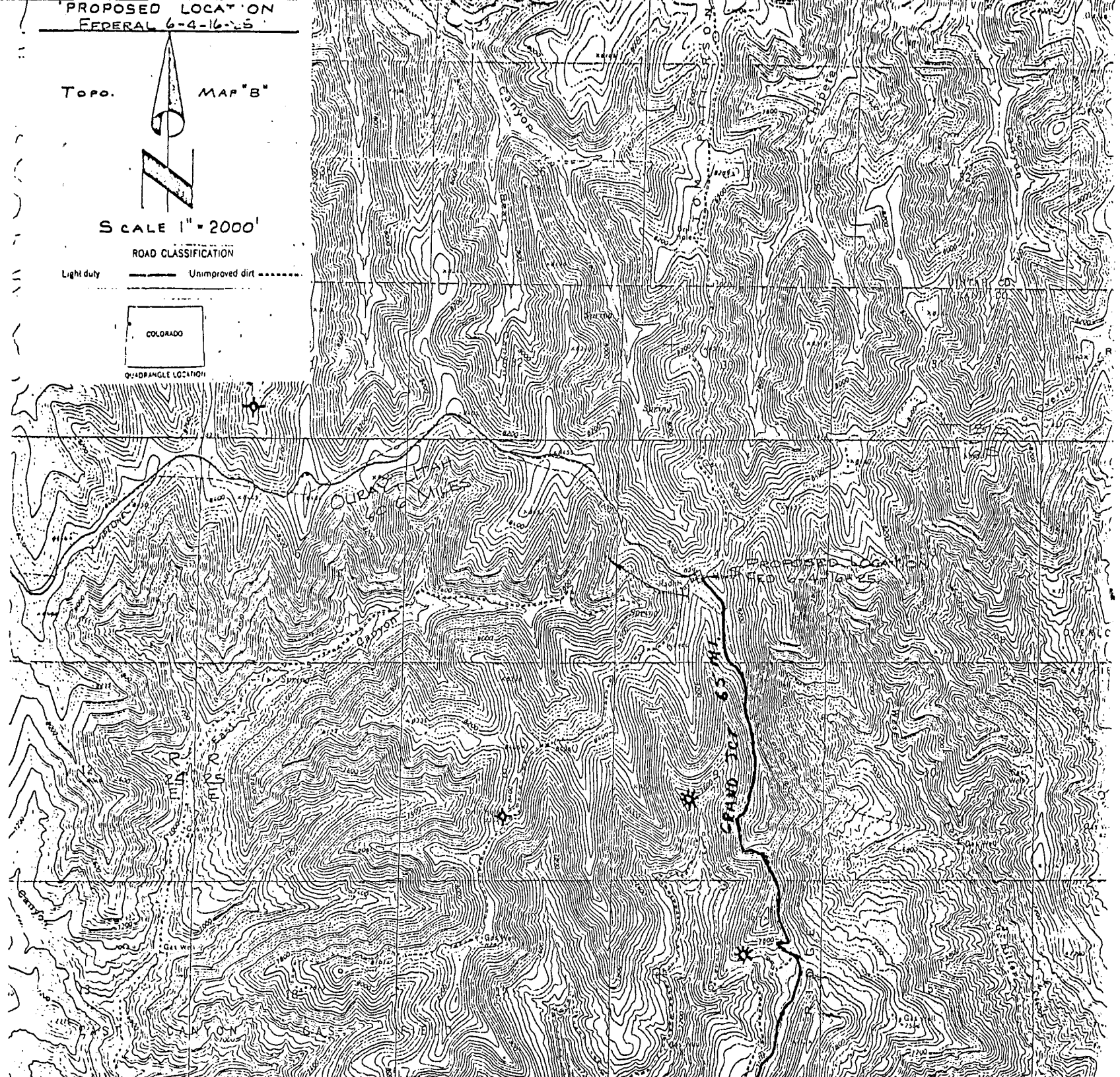
Light duty



Unimproved dirt



QUADRANGLE LOCATION



PROPOSED LOCATION
FEDERAL 6-4-16-25

TOPO.

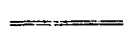
MAP "B"



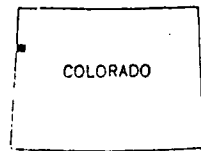
SCALE 1" = 2000'

ROAD CLASSIFICATION

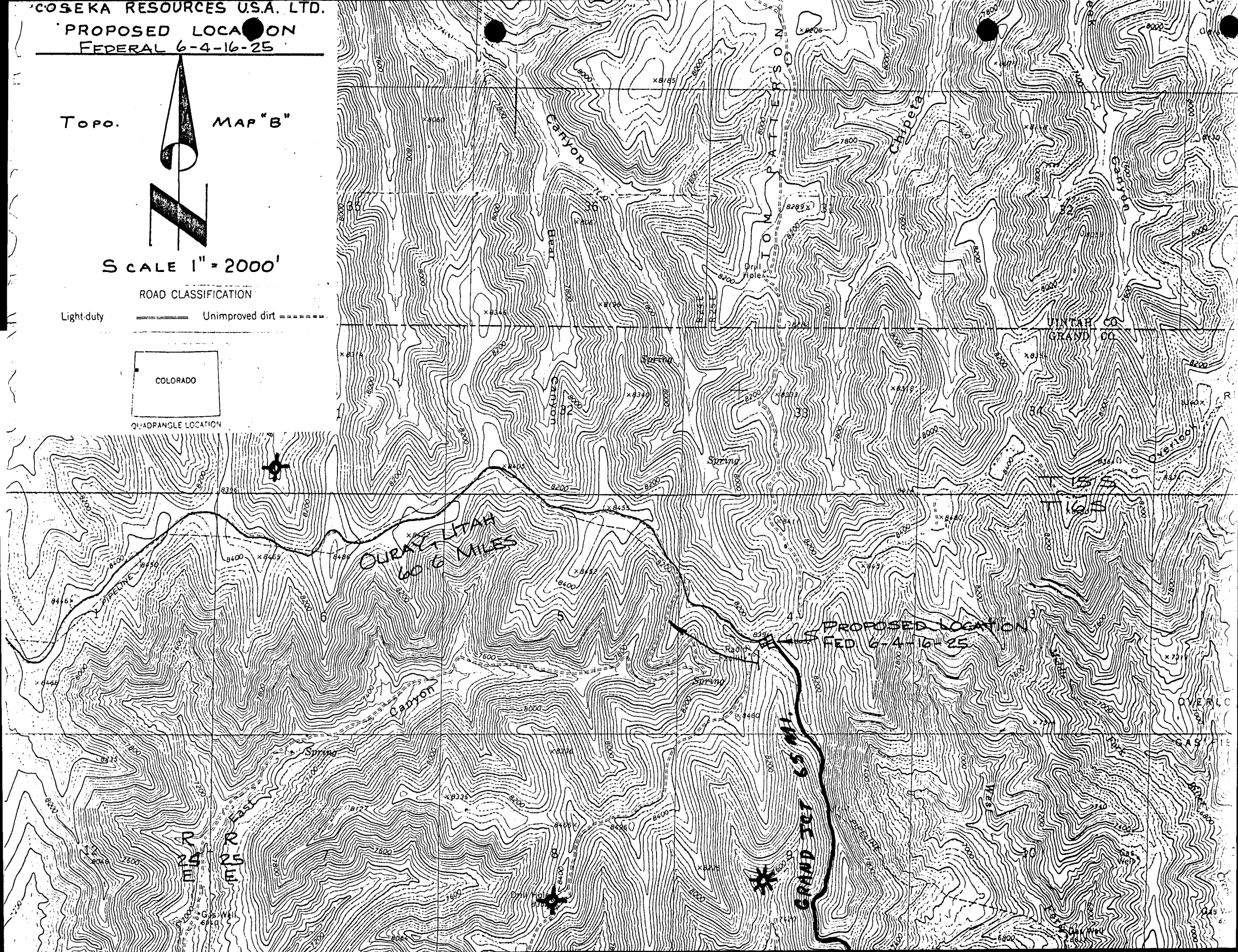
Light-duty

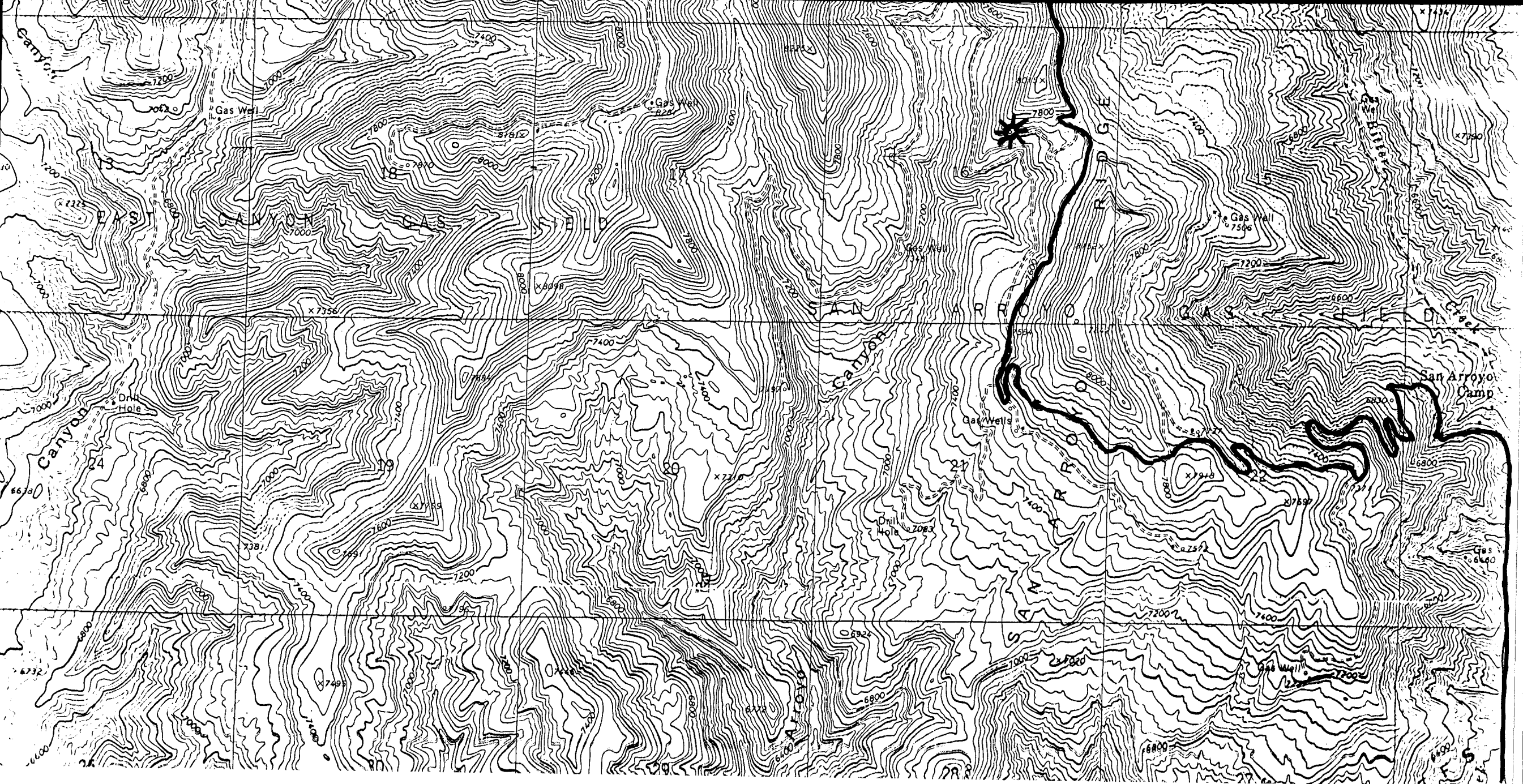


Unimproved dirt =====

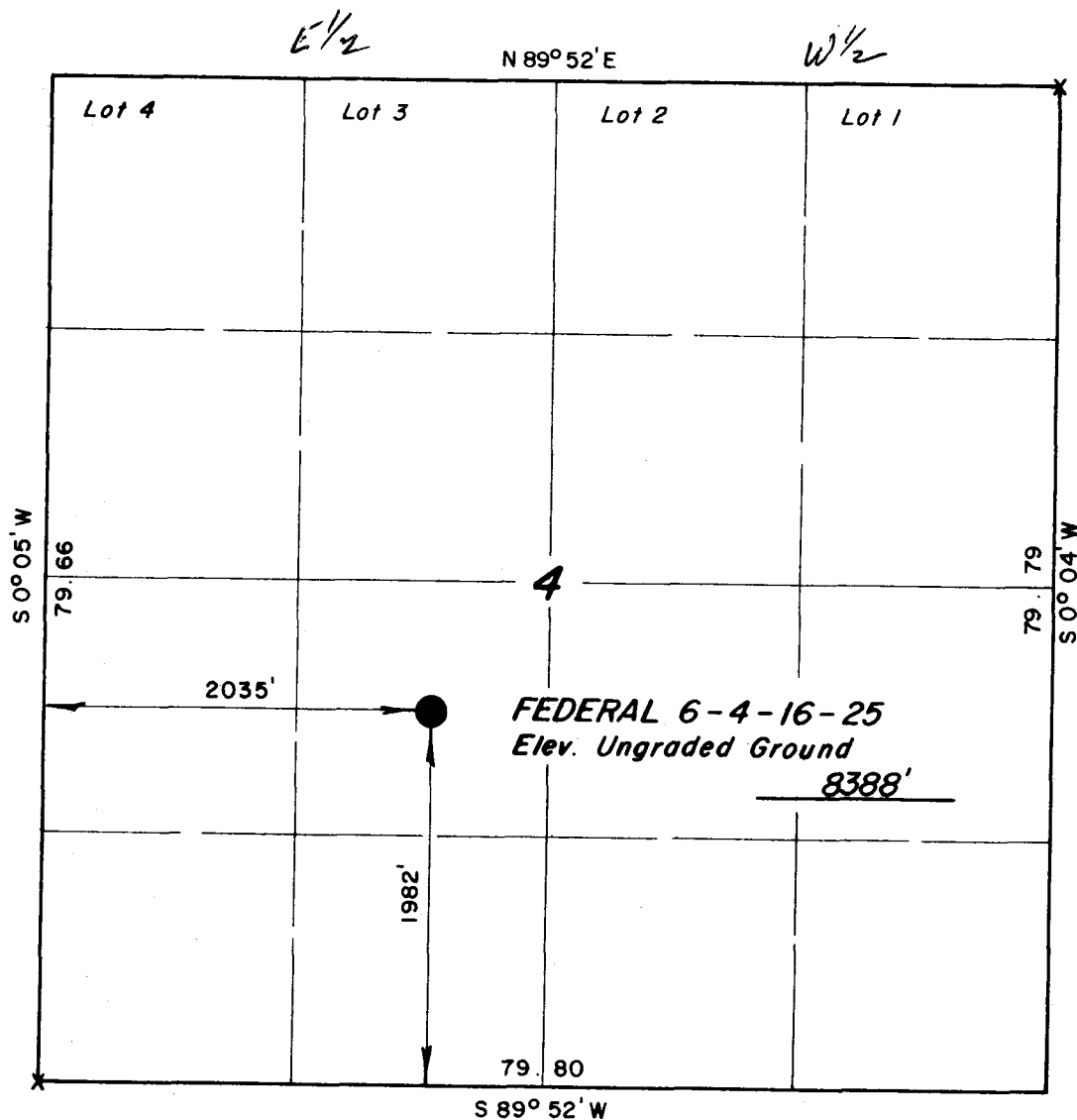


QUADRANGLE LOCATION





T 16 S, R 25 E, S.L.B.&M.



X = Section Corners Located

PROJECT

COSEKA RESOURCES U.S.A. LTD.

Well location, *FED. 6-4-16-25*, located as shown in the NE 1/4 SW 1/4 Section 4, T16S, R25E, S.L.B.&M. Grand County, Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

James E. Allen
REGISTERED LAND SURVEYOR
REGISTRATION NO 3137
STATE OF UTAH

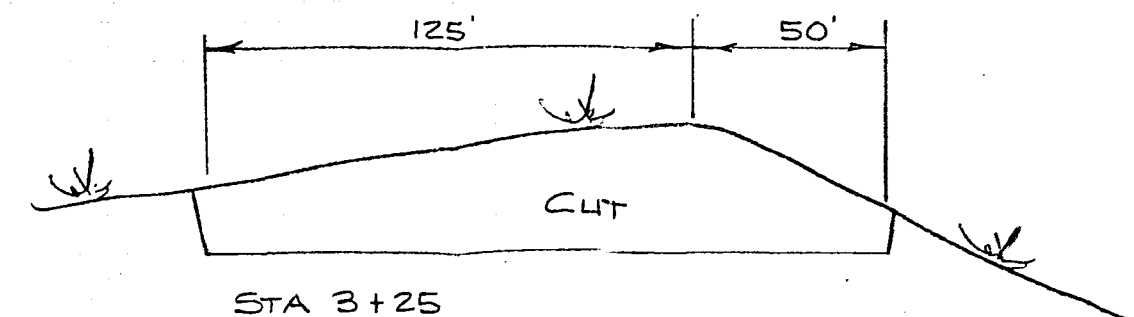
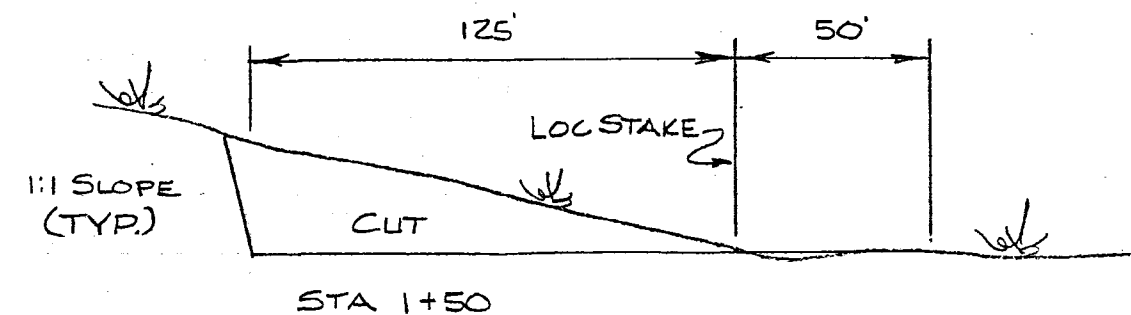
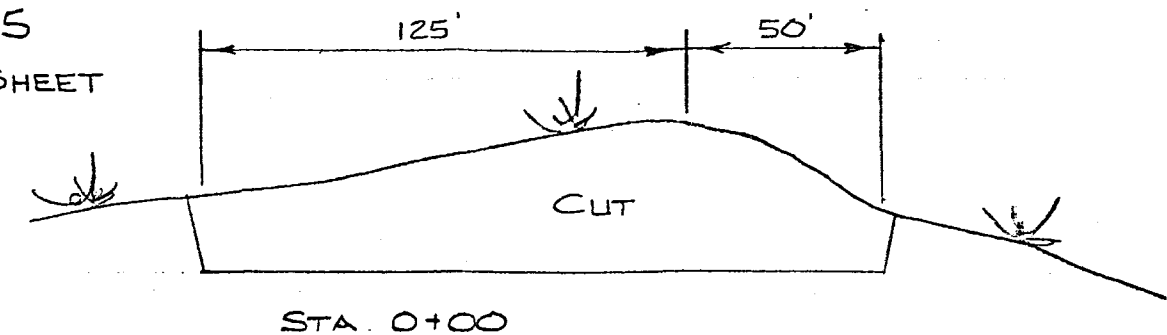
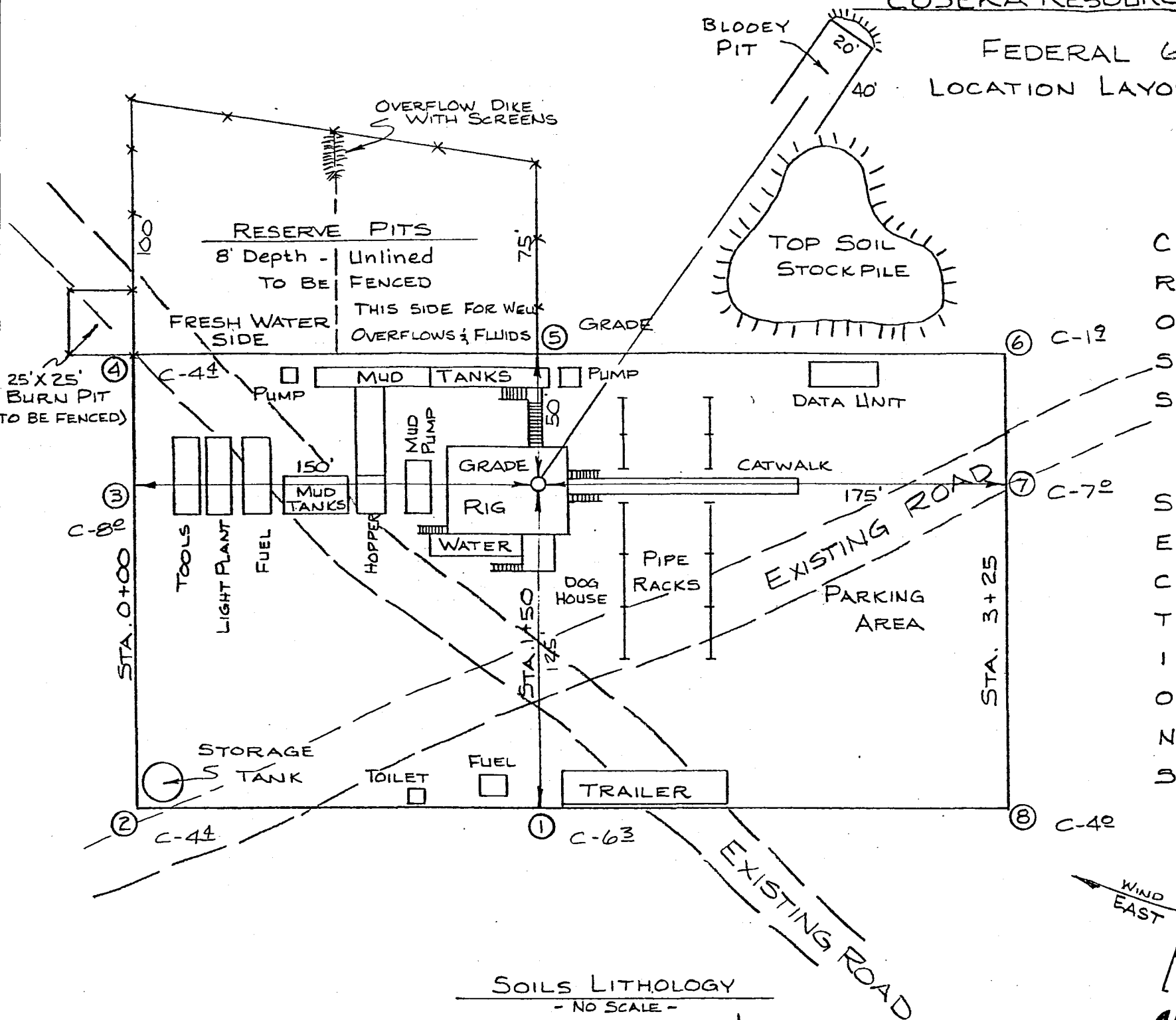
Revised May 1, 1980

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q ~ 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 11/9/78
PARTY R.K. T.J. BFW	REFERENCES GLO Plat
WEATHER Clear & Cool	FILE COSEKA

COSEKA RESOURCES U.S.A. LTD.

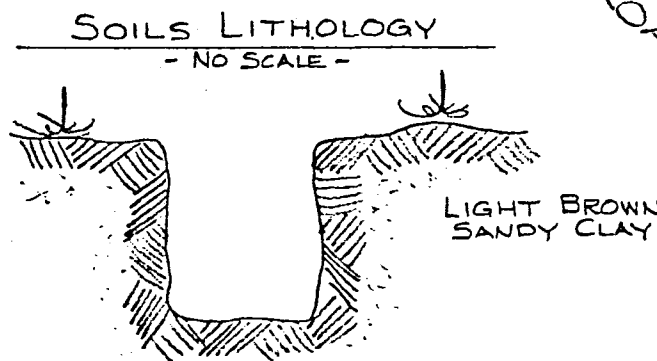
FEDERAL 6-4-16-25 LOCATION LAYOUT & CUT SHEET



SCALES
1" = 50'

APPROX. YARDAGES

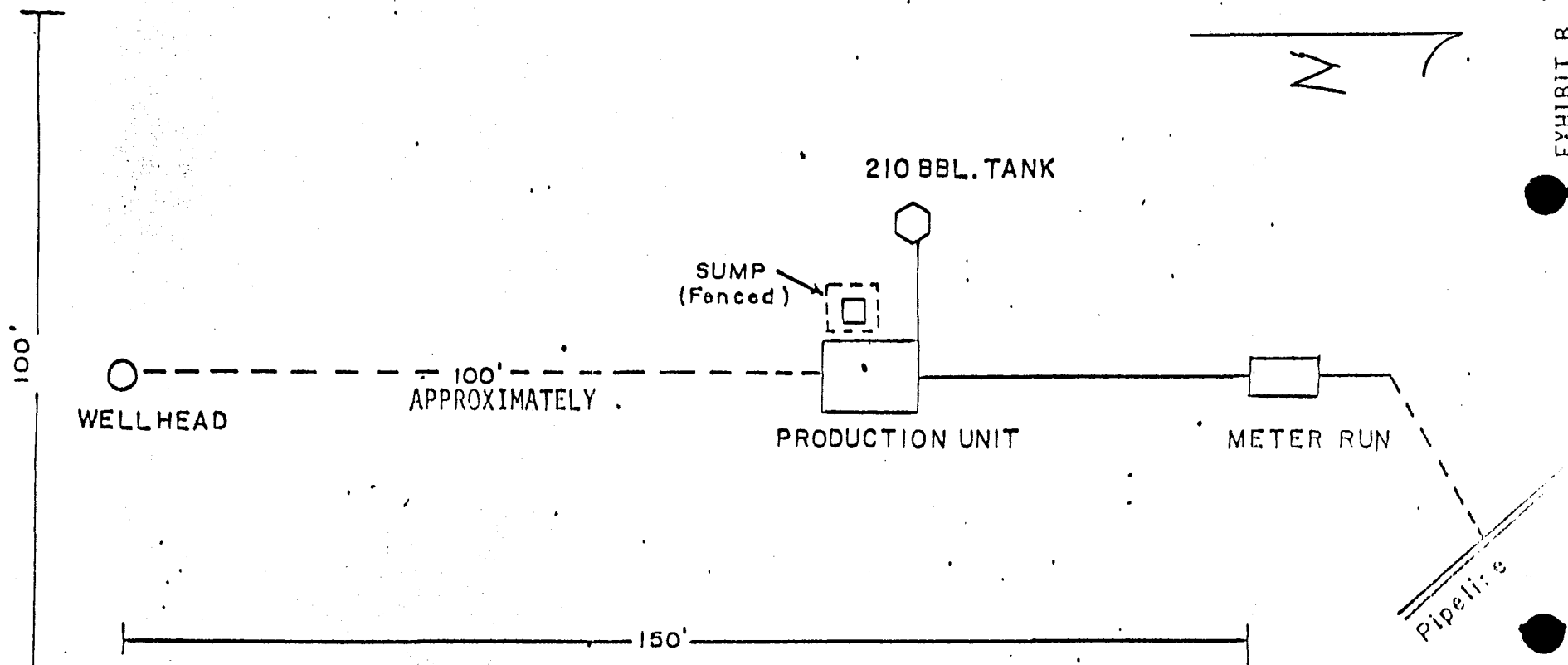
CUT 8.534 CU YDS.
FILL 0 CU YDS.



DAKOTA

N

EXHIBIT B



150'

PRODUCTION LAYOUT

Oil and Gas Drilling

EA No. 433-80

United States Department of the Interior
Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

USUAL ENVIRONMENTAL ASSESSMENT

Date July 21, 1980

Operator Coseka Resources Ltd.

Well No. 6-4-16-25

Location 2035' FWL 1982' FSL Section 4 Township 16S Range 25E

County Grand State Utah Field/Unit Wildcat

Lease No. U-43179

Permit No. _____

Prepared by: Glenn M. Doyle

Environmental Scientist
Grand Junction, Colorado

Joint Field Inspection Date: July 2, 1980

Field Inspection Participants, Titles, and Organizations:

Don Dunckley

Operator

Dallas Galley

Dirt Contractor

Cory Bodman, Ed Bottom

Bureau of Land Management

Glenn Doyle

U. S. Geological Survey

Related Environmental Documents:

BLM-Moab, Book Mountain Unit Resource Analysis.

BLM-Utah, 1979, Final initial wilderness inventory, USDI, August, 50 pp.

*Admin Council 325
Pod 210 x 250
35 x 250
855 x 24' 11.10' ca
1-7
897*

DESCRIPTION OF PROPOSED ACTION

Proposed Action:

1. Location State: Utah
 County: Grand
- 2035 ' F W L, 1982 ' F S L, NE 1/4 SW 1/4
 Section 4, T16S, R25E, SLBM

2. Surface Ownership Location: Private
 Access Road: Public (County)

Status of Reclamation Agreements: See Appendix - This well requires that a section of Grand County road be rerouted. A permit has been applied for and must be approved prior to any construction. Private rehabilitation agreement attached.

3. Dates APD Filed: May 15, 1980
 APD Technically Complete: June 16, 1980
 APD Administratively Complete: 9-4-80

4. Project Time Frame Starting Date: July 1980
 Duration of drilling activities: 21 days.

A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseedling would normally occur within one year; revegetation or restoration may take several years. If the well is a producer, an indefinite period of time would occur between completion and rehabilitation.

5. Related actions of other federal or state agencies and Indian tribes:

None known

6. Nearby pending actions which may affect or be affected by the proposed action:

None known

7. Status of variance requests:

None known

The following elements of the proposed action would/could result in environmental impacts:

1. A drill pad 210' wide x 325' long and a reserve pit 35' x 250' would be constructed. Approximately 555 feet of existing road would be rerouted and reconstructed to 24' wide from a maintained road. 2.1 acres of disturbed surface would be associated with the project.

2. Drilling
3. Waste disposal
4. Traffic
5. Water requirements
6. Completion
7. Production
8. Transportation of hydrocarbons

Details of the proposed action are described in the Application for Permit to Drill.

Environmental Considerations of the Proposed Action:

Regional Setting/Topography - The wellsite lies at the junction of four roads on top of the Book Cliff ridge. Steep-walled cliffs and talus-flanked mesas of subalpine character surround the site.

PARAMETER

A. Geology - Surface is the Green River Formation. Other formations are listed in the 10-Point Subsurface Plan.

Information Source: Application to Drill.

1. Other Local Mineral Resources to be Protected: Economic coal may be found in the Meslen Member of the Price River Formation. Natural gamma and gamma density logs for protection and identification of coal beds, through the casing, are requested.

Information Source: ME, District Geologist.

2. Hazards: Oilfield traffic is heavy at this road junction. Signs warning of drilling activities are needed to improve traffic safety.

Information Source: Field observation.

- a. Land Stability: Land stability could be undermined in the reserve pit area unless some stability control measures are incorporated. Specifically, insuring that the reserve pit would largely be in cut material and lining.

Information Source: Field observation.

- b. Subsidence: Subsidence can occur with the withdrawal of oil, gas, and/or water.

Information Source: Keller, Edward A., 1976, Environmental geology, Charles E. Merrill, 488 pp.

c. Seismicity: Seismic risk: low. Statistically, greatest damage would be moderate, corresponding to intensity VII of Modified Mercalli Intensity Scale, 1931.

Information Source: Algermissen, S. T., and Perkins, David M., 1977, Earthquake hazards map of the United States, Reprint from Earthquake Information Bulletin, 9(1) Jan-Feb., 4 pp.; Perkins, David M., 1974, Seismic risk maps, Reprint of Earthquake information bulletin, 6(6) Nov-Dec.; von Hake, Carl A., Earthquake History of Utah, NOAA.

d. High Pressure Zones/Blowout Prevention: No high pressure zones expected. Blowout prevention systems detailed in APD.

Information Source: Application to Drill.

B. Soils

1. Soil Character: No detailed soil surveys done in area. Changes in soil fertility, horizons, slope stability, etc., cannot be predicted. Soils are considered nitrogen-poor, alkaline soils that support the salt-desert community.

Information Source: BLM-Moab, Book Mountain Unit Resource Analysis. Field observation.

2. Erosion/Sedimentation: Erosion/sedimentation would increase as would runoff potential. Extent of increases unpredictable without site-specific studies being done. Minor increases in sediment load, resulting in siltation/sedimentation, could occur in nearby intermittent drainages.

Information Source: Field observation.

C. Air Quality - Well site lies in Class II attainment area. No Class I attainment areas are near, or adjacent to, proposed location.

Information Source: BLM-Moab, Book Mountain Unit Resource Analysis.

D. Noise Levels - Operation would not blend with natural surroundings. Most likely unappealing to recreationists. Impact duration: life of well.

Information Source: Field observation.

E. Water Resources

1. Hydrologic Character

a. Surface Waters: No significant impacts to surface water systems are expected, provided the operator maintains all adverse substances either on the pad or in a fluid-tight reserve pit.

Information Source: Field observation.

b. Groundwaters: Contamination to groundwaters through commingling with drilling fluids is possible.

Information Source: Field observation.

2. Water Quality

a. Surface Waters: Release of produced and/or circulating fluids from the reserve pit could cause a significant adverse affect on surface water quality, depending on fluid's chemical composition.

Information Source: Field observation.

b. Groundwaters: Operator proposes 200' of surface casing. Commingling of drilling fluids with potentially usable water could render groundwater unusable. Pits would be lined with two to three inches of bentonite if fractured bedrock is encountered during construction.

Information Source: Application to Drill and Field observation.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the formal comments received from the Bureau of Land Management on July 11, 1980, we determine that there would be no effect on endangered and threatened species and/or their critical habitat.

2. Flora: Construction would remove about 2.1 acres of vegetation increasing potential for non-point erosion and decreasing soil fertility.

Information Source: Field observation.

3. Fauna: Vegetation removal reduces wildlife habitats and food sources. Deer are not known to winter in the area. No known migratory bird nesting areas, strutting or breeding grounds, or fish-spawning areas would be impacted by proposed action.

Information Source: BLM-Moab, Book Mountain Unit Resource Analysis.

G. Land Uses

1. General: Oil and gas operations, recreation, and grazing are major land uses. Amount and quality of land available to livestock, wildlife, and recreationists would be reduced during well life.

Information Source: Field observation.

2. Affected Floodplains and/or Wetlands: N/A

Information Source: Field observation.

H. Aesthetics: Operation would not blend with natural surroundings. Most likely unappealing to recreationists. Impact duration: life of well.

Information Source: Field observation.

I. Socioeconomics: The effect of one well on local and regional population and economy would be considered minor. If major discovery, then consider: Population increase, community services taxed, resources depleted, cumulative impacts multiply, pipelines and transportation routes expand.

Information Source: G. Doyle, Environmental Scientist, USGS.

J. Cultural Resources Determination: Based on the formal comments received from the Bureau of Land Management on July 11, 1980, we determine that there would be no effect on cultural resources subject to no stipulations.

Information Source: Bureau of Land Management.

K. Adequacy of Restoration Plans: Rehabilitation plan judged as adequate. Problems hampering restoration: a) Area subject to short growing season; b) limited precipitation during growing season; and c) generally, very little topsoil which has limited organic matter and is low in fertility.

Information Source: G. Doyle, Environmental Scientist, USGS.
David Oberwager, Env. Spec. (Reclamation), USGS-AOSO.

Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.

2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

Adverse Environmental Effects:

1. If approved as proposed:

a. About 2.1 acres of vegetation would be removed, increasing and accelerating erosion potential.

b. Pollution of groundwater systems ^{could} would occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present, depending on the casing program.

c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.

- d. The potential for fires, leaks, spills of gas and oil or water exists.
- e. During construction and drilling phases of the operation, noise and dust levels would increase.
- f. Distractions from aesthetics during the lifetime of the project would exist.
- g. Erosion from the site would eventually be carried as sediment in the Colorado River. The potential for pollution to East Canyon would exist through leaks and spills.
- h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of an irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.
- i. Other:
 - 1) If constructed as proposed, the reserve pit would be in fill material at the head of the East Canyon drainage. Significant pollution potential exists if fluids leaked or spilled from a breached pit.
 - 2) Fractured bedrock is likely to be encountered during pit construction, increasing the potential for surface and subsurface water quality degradation.
 - 3) The blooie line would be built as part of the reserve pit, not separately as shown.
 - 4) Heavy traffic at the road junction poses a safety hazard to rig operations. Rig operations also pose a safety hazard to the local traffic.
 - 5) Both cattle and sheep could be endangered by toxic or hazardous fluids in the reserve pit if it is not properly fenced.

2. Conditional approval

- a. All adverse impacts described in section one above would occur, except
 - 1) By terracing the reserve pit and lining with two to three inches of bentonite gel, fluid-holding capability would be improved. Also, by lengthening and narrowing the reserve pit, surface rehabilitation, pit integrity, and safety hazards would be mitigated.

- 2) By reorienting the blooie pit about 15° to the west and stabilizing the backslope with rock and boulders, hazards posed to traffic by flaring, blowing, etc., would be mitigated.
- 3) By placing warning signs on the roads, traffic safety hazards would be mitigated.
- 4) By fencing the reserve pit on three sides prior to drilling, and on the fourth side once the rig moves off, hazards posed by fluids to livestock and wildlife would be mitigated.

Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

1. See attached Lease Stipulations.
2. See attached BLM Stipulations.
3. Terrace reserve pit to place in cut material. *LINE WITH 2-3" OF BENTONITE.*
4. Lengthen and narrow reserve pit to 10'x35'x250'.
5. Build blooie pit as part of the west end of the reserve pit (rig will be easily accommodated - this amounts to about a 14° westward rotation) and then stabilize the backslope with rocks and boulders.
6. Place signs on roads warning of drilling activities.
7. Fence reserve pit on three sides prior to drilling, and on the fourth side once the rig moves off.

Controversial Issues and Conservation Division Response: None known.

We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

Determination

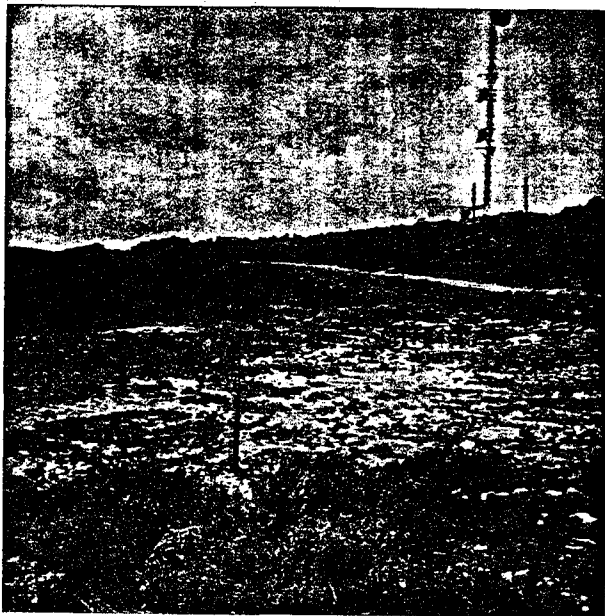
I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102(2)(C).

E. L. Haysman

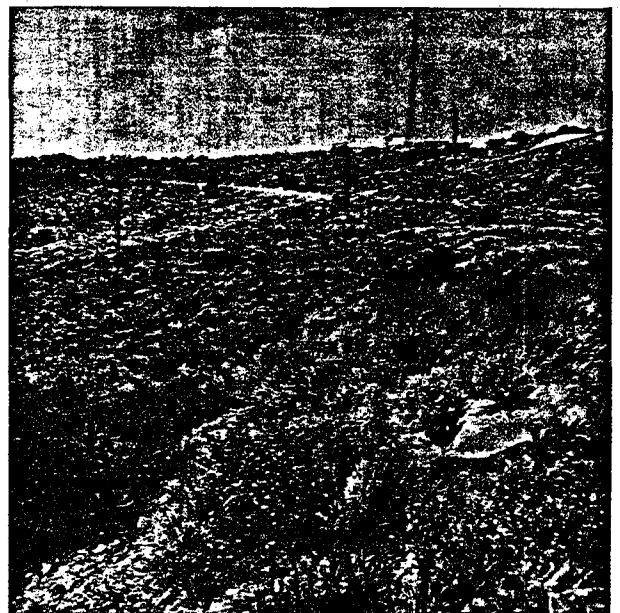
District Engineer
U. S. Geological Survey
Conservation Division
Oil & Gas Operations
Salt Lake City District

AUG 08 1980

Date



Coseka #6-4-16-25
Sec. 4, T16S, R25E, Grand Co.
Utah



Coseka #6-4-16-25
Reserve pit area - should
be terraced, lined

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on
reverse side)

DUPLICATE COPY

APPLICATION
FOR PERMIT TO DRILL, DEEPEN, OR REENTER AND OPERATE

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

REENTER ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Coseka Resources (U.S.A.) Limited

3. ADDRESS OF OPERATOR

78-17th St. - Suite 630
Denver, CO. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

2035' FWL, 1982' FSL, Sec 4 T16S R25E, S. L. B. & M., Grand
County, Utah
At proposed prod. zone SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

65 miles west from Grand Junction, Colorado

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. line, if any)

1982'

16. NO. OF ACRES IN LEASE

1277.16

17. NO. OF ACRES AND/OR DRILLING UNIT ASSIGNED TO THIS WELL

360

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

7569'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

8388' ungr

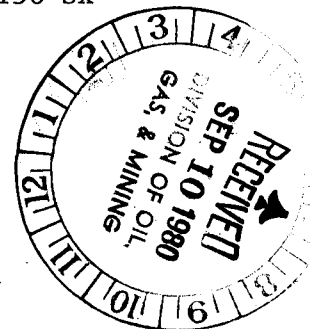
22. APPROX. DATE WORK WILL START

July 15, 1980

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8" New	48#	200'	To surface
12 1/2"	8 5/8" New	24# & 32#	3600'	200 sx
7 7/8"	5 1/2" New	15.5# & 17#	7569'	150 sx



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or reenter and operate, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Donald R. Duncanson

TITLE

Area Drilling Eng.

DATE

5/12/80

(This space for Federal or State Office use)

PERMIT NO.

APPROVAL DATE

FOR

E. W. GUYNN

APPROVED BY

(Orig. Sgu.) H. A. MEMMICKS

TITLE

DISTRICT ENGINEER

DATE

SEP 5 1980

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

See Instructions On Reverse Side

Ut. State 046

Memorandum

To: District Oil and Gas Engineer, Mr. Edward Guynn

From: Mining, Supervisor, Mr. Jackson W. Moffitt

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. U-43179 Well No 6-4-16-25

1. The location appears potentially valuable for:

☐ strip mining*

☒ underground mining** *coal*

☐ has no known potential.

2. The proposed area is

☐ under a Federal lease for _____ under the jurisdiction of this office.

☒ not under a Federal lease under the jurisdiction of this office.

☒ Please request the operator to furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920.

*If location has strip mining potential:

Surface casing should be set to at least 50 feet below the lowest strip minable zone at _____ and cemented to surface. Upon abandonment, a 300-foot cement plug should be set immediately below the base of the minable zone.

**If location has underground mining potential:

The minable zones should be isolated with cement from a point 100 feet below the formation to 100 feet above the formation. Water-bearing horizons should be cemented in like manner. Except for salines or water-bearing horizons with potential for mixing aquifers, a depth of 4,000 feet has been deemed the lowest limit for cementing.

Signed

Allen J. Vance

JUN 16 REC'D

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. U-43179
2. NAME OF OPERATOR Coseka Resources (U.S.A.) Limited		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 718 17th St. #630, Denver, CO 80202		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2035' FWL & 1982' FSL Sec. 4-T16S-R25E, Grand Co., Utah		8. FARM OR LEASE NAME Federal
14. PERMIT NO. API #43-019-30645		9. WELL NO. 6-4-16-25
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 8388' Ungr		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE NE SW Sec. 4-16S-25E
		12. COUNTY OR PARISH Grand
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other) Monthly Report of Operations

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

9/80 - Spudded 9/24/80. Depth on 9/30/80-1025'.
10/80 - Total Depth 7780'. Waiting on completion unit.

RECEIVED

NOV 10 1980

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

Brenda Groghan
Brenda Groghan

TITLE

Production Secretary

DATE

11/6/80

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STG



COSEKA RESOURCES (U.S.A.) LIMITED

718 17th STREET, SUITE #630, DENVER, COLORADO 80202 (303) 573-6178

January 14, 1981

State of Utah
Division of Oil, Gas & Mining
1588 West, North Temple
Salt Lake City, Utah 84116

Re: Federal #6-4-16-25
NENESW Sec 4-16S-25E
Grand County, Utah

Gentlemen:

Enclosed, in duplicate, is the Well Completion Report for the
above referenced well.

Thank you.

Very truly yours,

COSEKA RESOURCES (U.S.A.) LIMITED

Brenda Groghan

Brenda Groghan
Production Secretary

/bg

Enclosures

RECEIVED

JAN 16 1981

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	Other _____						
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	Other _____				
2. NAME OF OPERATOR						5. LEASE DESIGNATION AND SERIAL NO.					
Coseka Resources (U.S.A.) Limited						U-43179					
3. ADDRESS OF OPERATOR						6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
718 17th St. #630, Denver, Colorado 80202											
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*						7. UNIT AGREEMENT NAME					
At surface 2035' FWL & 1982' FSL, Sec. 4-T16S-R25E, Grand Co., Utah At top prod. interval reported below Same At total depth Same						8. FARM OR LEASE NAME					
						Federal					
14. PERMIT NO. API#						9. WELL NO.					
43-019-30645						6-4-16-25					
DATE ISSUED						10. FIELD AND POOL, OR WILDCAT					
5/5/80						Wildcat					
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA						12. COUNTY OR PARISH					
NENESW Sec. 4-16S-25E						Grand					
13. STATE						13. STATE					
Utah						Utah					
15. DATE SPUDDED		16. DATE T.D. REACHED		17. DATE COMPL. (Ready to prod.)		18. ELEVATIONS (DF, REB, RT, OR, ETC.)*		19. ELEV. CASINGHEAD			
9/24/80		10/14/80		11/18/80		8388' Ungr		-			
20. TOTAL DEPTH, MD & TVD		21. PLUG, BACK T.D., MD & TVD		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY		ROTARY TOOLS			
7780'		7780'		-		→		X			
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*								25. WAS DIRECTIONAL SURVEY MADE			
Dakota Top 7074': Bottom 7256'								No			
26. TYPE ELECTRIC AND OTHER LOGS RUN								27. WAS WELL CORED			
DIL, CNL-FDC, CBL-VDL-GR								No			
28. CASING RECORD (Report all strings set in well)											
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED	
9 5/8"		36#		212'		12 1/4"		130 sxs			
7"		23#		3815'		8 3/4"		140 sxs			
4 1/2"		11.6#		7780'		6 1/4"		283 sxs			
29. LINER RECORD										30. TUBING RECORD	
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*		SCREEN (MD)		SIZE	
										2 3/8"	
										7164	
										-	
31. PERFORATION RECORD (Interval, size and number)										32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
Perf 9 - .32" holes @ 7634, 32, 28, 7281, 79, 72, 44, 42, 40''.										DEPTH INTERVAL (MD)	
										7140-7634'	
										AMOUNT AND KIND OF MATERIAL USED	
										Frac w/54,000 gal foam & 117,000# 20/40 sand	
33.* PRODUCTION											
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)						WELL STATUS (Producing or shut-in)			
SI		Flowing						SI			
DATE OF TEST		HOURS TESTED		CHOKE SIZE		PROD'N. FOR TEST PERIOD		OIL—BBL.		GAS—MCF.	
1/8/81		24		24/64		→		-		93	
FLOW. TUBING PRESS.		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL—BBL.		GAS—MCF.		WATER—BBL.	
160		365		→		-		93		4.0	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)										TEST WITNESSED BY	
Sold										Boyd Snow	
35. LIST OF ATTACHMENTS											
Logs under separate cover											
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records											
SIGNED <u>Dean Rogers</u>				TITLE <u>Senior Operations Engineer</u>				DATE <u>1/14/81</u>			

*See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS


General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 38, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 38. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Mancos B	4195	4953	<div style="text-align: center;">  <p>JAN 10 1991</p> <p>DIVISION OF OIL, GAS & MINING</p> </div>	Sego	3247	
Dakota	7074	7284		Buck Tongue	3324	
Morrison	7614			Castlegate	3425	
				Mancos "B"	4195	
				Dakota	7074	
				Cedar Mountain	7284	
				Buck Horn	7325	
				Morrison	7390	

February 13, 1981

Coseka Resources (U.S.A.) Limited
718 17th Street
Suite #630
Denver, Colorado 80202

RE: Well No. Federal #6-4-16-25
Sec. 4, T. 16S, R. 25E.,
Grand County, Utah

Gentlemen:


According to our records, a "Well Completion Report" filed with this office January 14, 1981, from above referred to well indicates the following electric logs were run: DIL, CNL-FDC, CBL-VDL-GR. As of today's date this office has not received the CBL-VDL-GR logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING


BARBARA HILL
WELL RECORDS

/bjh

THE FOLLOWING METERS WILL HAVE CALIBRATION / SETTLEMENT TESTS RUN ON THE DATES INDICATED. STARTING TIME WILL BE 0800 OR AS SPECIFIED BELOW AND AT THE OFFICE OF THE NORTHWEST PIPELINE GRAND JUNCTION DISTRICT YOU WILL BE NOTIFIED SHOULD ANY CHANGES OCCUR IN THIS SCHEDULE. IF YOU HAVE ANY QUESTIONS ABOUT THE SCHEDULE, CONTACT OR WRITE THE DISTRICT OFFICE.

METER CODE	WELL NAME	LOC	RUN	DAY	MO/YR	STARTING TIME
92153010	MIDDLE CANYON FED #4-30-16-24	06	03	15	10/85	1000
92264017	FEDERAL #6-4-16-25	06	12	—	11/85	T.D.



UTAH
NATURAL RESOURCES
Oil, Gas & Mining

355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut
84180-1203 • (801-538-5340)

DOGM 55-64-
an equal opportunity employer

Page 4 of 5

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

• COSEKA RESOURCES USA LTD
SUITE 300 1512 LARIMER ST
DENVER CO 80202 1602
ATTN: DAVID JOHNSON

Utah Account No. N0280

Report Period (Month/Year) 6 / 88

Amended Report ☐

Well Name			Producing Zone	Days Oper	Production Volume		
API Number	Entity	Location			Oil (BBL)	Gas (MSCF)	Water (BBL)
✓ 4304731041	16-25-14-23	08081 14S 23E 25	DKTA	✓			
✓ 4304731055	6-13-14-23	08081 14S 23E 13	MNCS	✓			
✓ 4301930641	4-30-16-24	08083 16S 24E 30	DKTA	X			
✓ 4301930645	6-4-16-25	08084 16S 25E 4	DKTA	X			
✓ 4304730621	PINE SP 2X-16-14-22	08086 14S 22E 16	DKTA	✓			
✓ 4304730960	PINE SPRINGS ST 15-16-14-22	08086 14S 22E 16	DKTA	✓			
✓ 4304731042	PINE SPRINGS 7-21-14-22	08086 14S 22E 21	DKTA	✓			
✓ 4304731063	PINE SPRINGS 8-20-14-22	08086 14S 22E 20	DKTA	✓			
✓ 4304731072	MAIN CYN 6-3-15-23	08245 15S 23E 3	MNCSB	✓			
✓ 4304730571	MAIN CYN 3-16-15-23	09365 15S 23E 16	DKTA	✓			
✓ 4304730332	1-L-23	09560 14S 24E 23	MNCS	✓			
✓ 4304730325	RAT HOLE CANYON #1	09565 14S 25E 8	MNCS	✓			
✓ 4304731096	PINE SPRINGS #9-12-14-21	10772 14S 21E 12	WSTC	✓			
TOTAL							

Comments (attach separate sheet if necessary) _____

I have reviewed this report and certify the information to be accurate and complete.

Date _____

Authorized signature _____

Telephone _____

PLEASE COMPLETE FORMS IN BLACK INK



COSEKA RESOURCES (U.S.A.) LIMITED

300 WRITER SQUARE, 1512 LARIMER STREET, DENVER, COLORADO 80202-1602 (303) 573-6178

RECEIVED
JUL 1 1988

DIVISION OF
OIL, GAS & MINING

June 27, 1988

On June 30, 1988, Coseka Resources (U.S.A.) Limited will be merged with and change its name to Arch Oil & Gas Company. The address for the organization will be unchanged at 300 Writer Square Building, 1512 Larimer, Suite 300, Denver, Colorado 80202-1602. The telephone number will also remain the same at (303) 573-6178.

While there should be no change in your communications with us, it is our hope that this change in name reflects the resolution of the past bankruptcy and the new and positive direction for the company. We look forward to working with you in the future as Arch Oil & Gas Company.

Thank you for your interest and if you have any questions, please contact us.

Sincerely,

Coseka Resources (U.S.A.) Limited

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved
Budget Bureau No. 1004-133
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-43179

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
6-4-16S-25E

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA
Sec. 4, T16S, R25E

12. COUNTY OR PARISH 13. STATE
Grand Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Arch Oil & Gas Company

3. ADDRESS OF OPERATOR
1512 Larimer St., Suite 300, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
2035' FWL & 1982' FSL, Sec. 4, T16S, R25E

14. PERMIT NO.
43-019-30645

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8388 GRD

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐ PULL OR ALTER CASING ☐
FRACTURE TREAT ☐ MULTIPLE COMPLETE ☐
SHOOT OR ACIDIZE ☐ ABANDON* ☐
REPAIR WELL ☐ CHANGE PLANS ☐
(Other) Proposed Plugging Procedure ☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐ REPAIRING WELL ☐
FRACTURE TREATMENT ☐ ALTERING CASING ☐
SHOOTING OR ACIDIZING ☐ ABANDONMENT* ☐
(Other) ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Well Bore Data: See Attached schematic

Proposed Procedure:

1. Spot a 600' cement plug across Dakota perms. 7040'-7640'.
2. Load hole with 8.6 ppg fluid.
3. Cut 4 1/2" casing at free point (approx. 3675') Pull casing.
4. Spot a 100' cement plug across 4 1/2" casing stub, 50' below to 50' above.
5. Cut and pull 7" casing at free point.
6. Spot 100' cement plug across 7" casing stub 50' below to 50' above.
7. Spot 100' cement plug across surface casing shoe, 162'-262'.
8. Set 50' cement plug at surface.
9. Erect dry hole marker.

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
2-TAS	
3- MICROFILM	
4- FILE	

18. I hereby certify that the foregoing is true and correct

SIGNED *[Signature]*

TITLE Operations Manager 08/21/89

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE 9-5-89

BY *[Signature]*

Federal approval of this action
is required before commencing
operations.

*See Instructions on Reverse Side

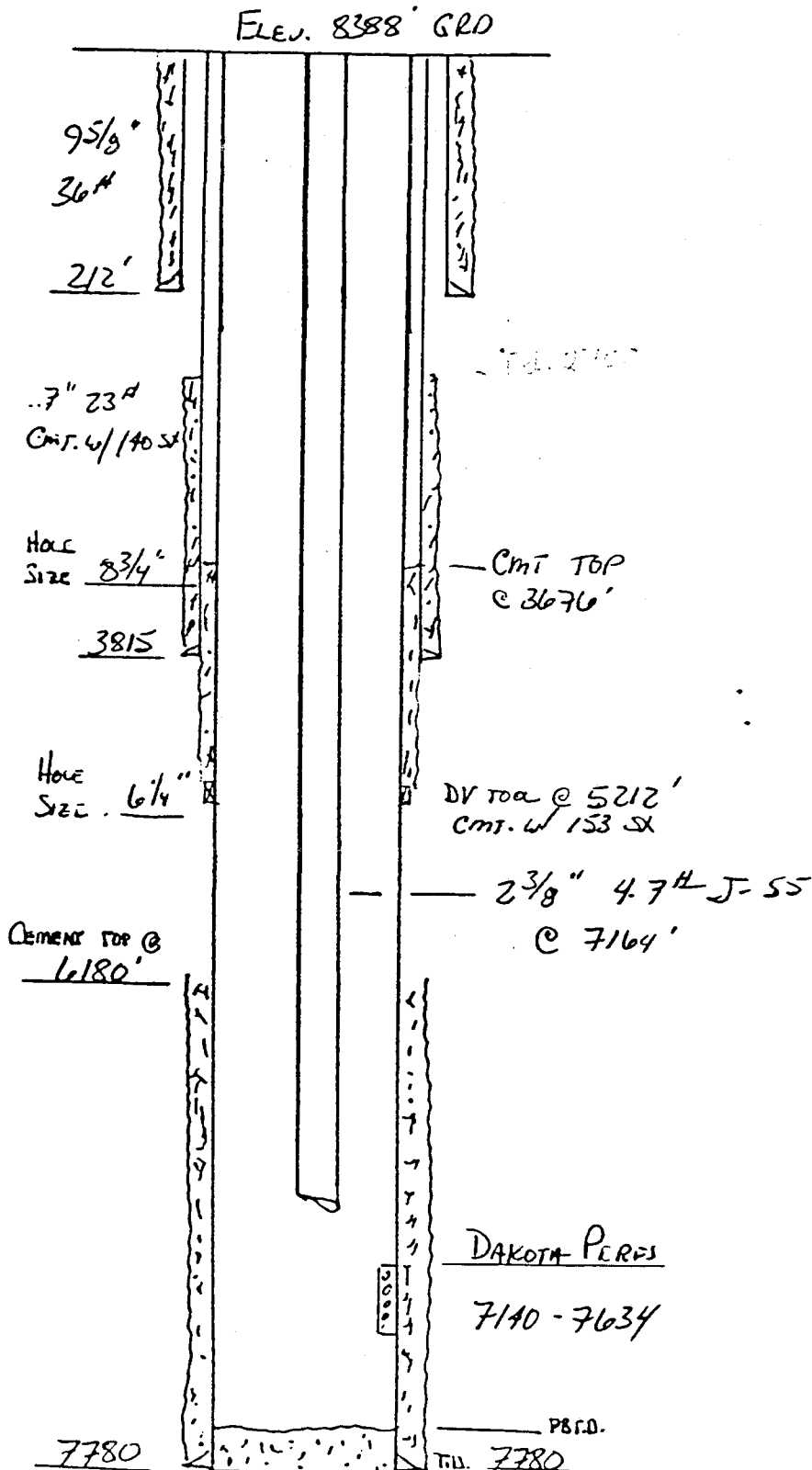


COSIEKA RESOURCES

(U.S.A.) LIMITED

610 Writter Square, 1612 Larimer Street, Denver, CO 80202-1602

WELL No. 6-4-16-25
LOCATION 2035 FWL, 1982' FSC
Sec 4 T 16 S R 25 E
County GRAND State UTAH
LEASE No. 4-43179



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-43179

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back. Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
Arch Oil & Gas Company

3. ADDRESS OF OPERATOR
1512 Larimer St., Suite 300, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

2035' FWL & 1982' FSL, Sec.4, T16S, R25E

14. PERMIT NO.
43-019-30645

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8388 GRD

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
6-4-16S-25E

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 4, T16S, R25E

12. COUNTY OR PARISH 13. STATE
Grand Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐ PULL OR ALTER CASING ☐
FRACTURE TREAT ☐ MULTIPLE COMPLETE ☐
SHOOT OR ACIDIZE ☐ ABANDON* ☐
REPAIR WELL ☐ CHANGE PLANS ☐
(Other) ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐ REPAIRING WELL ☐
FRACTURE TREATMENT ☐ ALTERING CASING ☐
SHOOTING OR ACIDIZING ☐ ABANDONMENT* ☐
(Other) Executed Plugging Procedures ☒

(NOTE: Report results of multiple completion or well completion or recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well Plugged and Abandoned 10/18/89 as follows:

1. Plug # 1 44 sx. 7640' to 6975'. Tagged plug.
2. Cut & pull 4 1/2" casing from 3300'.
3. Plug # 2 12 sx. 3865' to 3745'.
4. Plug # 3 24 sx. 3365' to 3265' across 4 1/2" casing stub.
5. Shot 7" casing at 1410'.
6. Plug # 4 squeezed 44 sx. at 1410'.
7. Plug # 5 Re-squeezed with 25 sx. at 1410'. Squeezed to 600 psi.
8. Cut & pull 7" casing from 800'.
9. Plug #6 - Plug # 12 Total of 124 sx. 260' to 160' across surface casing shoe.
10. Plug # 13 28 sx. at surface
11. 9#/gal. mud between all plugs.
12. Erected dry hole marker. Rehab and seed location.

*Note: Plug across the 7" casing stub was not required by BLM due to proximity to the surface shoe plug.

18. I hereby certify that the foregoing is true and correct

SIGNED

Operations Manager

11/10/89

TITLE

DATE

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

RECEIVED
NOV 15 1989

RIPPY, INC.

DIVISION OF
OIL, GAS & MINING

P. O. Box 66
Grand Junction, CO 81502
Phone (303) 243-4591

Date 10/18/89

CEMENTING AFFIDAVIT
PULLING & PLUGGING REPORT

NOV 02 89

ALBERTA & GAS
COMPANY

Company Arch Oil & Gas

Lease Federal

Well No. 64-16-25

Section 4 Township 16 S Range 25 E Unit _____ County Grand, Utah

3300 Ft. of 4 1/2 Casing Recovered

800 Ft. of 7" Casing Recovered

PLUGS SET

1. 44 Sax Cement Set At 7640 Ft. To 7040 Tag 6975' Ft.
2. 12 Sax Cement Set At 3865 Ft. To 3745' Ft.
3. 24 Sax Cement Set At 3365 Ft. To 3265 Ft.
4. 44 squeeze 1410 Tag at 1405' squeeze leaked
25 Sax Cement Set At 1405 to squeeze & pressure 600* held
5. 124 6 plugs at this depth. Sax Cement Set At 260 Ft. To 160 Ft.
6. 28 Sax Cement Set At surface Ft. To _____ Ft.
7. _____ Sax Cement Set At _____ Ft. To _____ Ft.
8. _____ Sax Cement Set At _____ Ft. To _____ Ft.

Other Stub plug in & out of 7" was not required. (Dave Brown
BLM obeyed this.) 9" mud was run between plugs &
location cleaned. Regulation marker erected.

RIPPY, INC.

Signed

W. J. Rippy Jr.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions on re-

Form approved
Budget Bureau No. 1004-4.35
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or back to a different interval.
Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED
JUL 07 1990

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		DIVISION OF OIL, GAS & MINING		5. LEASE DESIGNATION AND SERIAL NO. U-43179	
2. NAME OF OPERATOR Arch Oil & Gas Company				6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1512 Larimer St., Suite 300, Denver, CO 80202				7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2035' FWL & 1982' FSL, Sec.4, T16S, R25E				8. FARM OR LEASE NAME Federal	
14. PERMIT NO. 43-019-30645		15. ELEVATIONS (Show whether OF, RT, GR, etc.) 8388 GRD		9. WELL NO. 6-4-16S-25E	
				10. FIELD AND FENCE, OR WILDCAT Wildcat	
				11. SEC., T., R., OR B.L. AND SURVEY OR AREA Sec. 4, T16S, R25E	
				12. COUNTY OR PARISH Grand	
				13. STATE Utah	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
(Other) ☐

PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
ABANDON* ☐
CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐
FRACTURE TREATMENT ☐
SHOOTING OR ACIDIZING ☐
(Other) ☐

REPAIRING WELL ☐
ALTERING CASING ☐
ABANDONMENT* ☒

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The subject well has been permanently plugged and abandoned and all surface disturbances have been restored and vegetation re-established.

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
1-TAS	
2-	MICROFILM
3-	FILE

18. I hereby certify that the foregoing is true and correct

SIGNED

Terry J. Cox

Operations Manager

DATE 2/5/90

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side